

A COMPENDIUM

OF THE

COMPARATIVE GRAMMAR

OF THE

DO-EUROPEAN, SANSKRIT, GREEK AND LATIN LANGUAGES.

BZ

AUGUST SCHLEICHER.

TRANSLATED FROM THE THIRD GERMAN EDITION

BY

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PART I.



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TRANSLATOR'S PREFACE.

This book is a translation of those parts of Schleicher's 'Compendium der vergleichenden Grammatik der Indogermanischen sprachen' which treat directly of the Indo-European original language, Sanskrit, Greek, and Latin: it was undertaken for the use of students of Greek and Latin Philology, on the suggestion of Mr. Peile, M.A., of Christ's College, Cambridge, to whom I am indebted for several hints and corrections. My thanks are due to Herr Gustav Voigt also, for help kindly given.

I shall be glad if readers will point out any mistakes in the translation.

HERBERT BENDALL.

LIVERPOOL COLLEGE, Oct. 1874.

PREFACE TO THE FIRST EDITION.

This work is meant to be an elementary handbook for lectures and self-instruction. The want of such a work has been hitherto widely felt. The state of Indo-European Philology is now such that it has become possible to write a compendium of the comparative grammar of the Indo-European languages. After we have discarded that part which is still doubtful, there remains a large store of knowledge, embracing the different sides which language offers to scientific treatment: this knowledge will, in my opinion, stand unshaken for all time. The chief object of a compendium of the Indo-European languages is to collect and arrange in a short and appropriate form, and yet in an intelligible manner, these results of Indo-European Philology. Where, however, it is impossible to avoid mentioning what is obscure and doubtful, it will be expressly characterized as such.

It is no slight task to compose a first handbook of this kind treating of the formation of the Indo-European languages: whether the writer of the present work has succeeded in temporarily satisfying the want, others must decide; but he begs them to take it into consideration that his book is a first essay in the direction pointed out. viii PREFACE.

The following account of the origin of my book may to some extent at least show that I have honestly encountered the difficulties of the task.

I have been Academical Professor for fifteen years, and have lectured on Indo-European grammar from the outset: partly sketching out grammars of particular Indo-European languages, from a philological point of view, partly writing a grammar of the languages which collectively form a speech-stem, i.e. a so-called Comparative Grammar. To infer from the number of hearers whom even these latter lectures attracted, and from the perseverance and attention with which I was listened to, they must have treated the subject in a manner intelligible to beginners. I have remodelled my notes more than once. It was a real pleasure to work for my hearers and pupils here: I am indebted to their encouragement and participation for the heartiness with which I undertook the complete re-arrangement of my treatise on Comparative Grammar of Indo-European languages, which I had delivered in two sets of halfyearly lectures.

In these lectures on Indo-European grammar I felt the want of a printed elementary treatise, which should offer in the most appropriate way the necessary examples and comparative tables. Dictating, and continually writing on the black board, is wearisome both to hearers and to the lecturer. Hence the thought first occurred to me of having my paper multiplied in MS. for the use of my pupils. And from this arose by degrees what I have now completed, the composition

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of a compendium especially for beginners. This book is therefore my notes repeatedly revised, and this is the point of view from which I desire it to be used and criticized.

It is to be understood that in my lectures I did not confine myself to the matter in the notes; what is printed here is merely that part which I used to dictate. Enlargements on particular points and excursus by the way I have never denied myself. Those who make use of this compendium will perhaps take this into consideration. The attempt to reduce the compass of the book to the narrowest limits possible made it a necessity to banish from it all discussions as regards different views. Generally I have attempted, whenever I could, to arrange the facts in such a way that they carried their proofs with them: moreover, the materials are so copious that even in the lectures it is difficult to find time for a controversial statement of details.

Circumstances unfortunately compelled me to finish the last preparation of the MS. for a printed compendium in a short time: but I hope that I have nevertheless written a useful book.

The design and execution of my work must speak for themselves; to discuss these points here would occupy too much space, and lengthen the compass of the preface to excess.

AUGUST SCHLEICHER.

ABBREVIATIONS.

A.S.	Anglo-Saxon	mom.	momentary			
acc. to	according to	N.H.G.	New High German			
bef.	before	O.Bulg.	Old Bulgarian			
bes.	beside	0.H.G.	Old High German			
betw.	between	origl.	original Indo-European			
caus.	causative		language			
comb.	combination	partt.	particles			
dial.	dialect	Pol.	Polish			
diall.	dialects	√ .	root			
ex.	example	Scl.	Sclavonic			
exx.	examples	sf.	suffix			
f.f.	fundamental form	sff.	suffixes			
fm.	form	st.	stem			
fmn.	formation	stt.	stems			
inserr.	inscriptions	termn.	termination			
M.H.G.	Middle High German.	unace.	unaccentuate			
Asterisk * indicates that the form does not occur.						

The other abbreviations explain themselves.

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INTRODUCTION.

I. Grammar forms one part of the science of language: this science is itself a part of the natural history of Man. Its method is in substance that of natural science generally; it consists in accurate investigation of our object and in conclusions founded upon that investigation. One of the chief problems of the science of language is the inquiry into, and description of the classes of languages or speech-stems, that is, of the languages which are derived from one and the same original tongue, and the arrangement of these classes according to a natural system. In proportion to the remainder but few speech-stems have hitherto been accurately investigated, so that the solution of this chief problem of the science must be looked for only in the future.

By grammar we mean the scientific comprehension and explanation of the sound, the form, the function of words and their parts, and the construction of sentences. Grammar therefore treats of the knowledge of sounds, or Phonology; of forms, or Morphology; of functions, or the science of meaning and relation, and syntax. The subject of grammar may be language in general, or one particular language or group of languages; grammar may be universal or special: it will in most cases be concerned in explaining the language as a product of growth, and will thus have to investigate and lay down the development of the language according to its laws. This is its exclusive province, and therefore its subject is the laying-down of the 'life of the language,' generally called historical grammar, or history of language, but more correctly 'science of the life of

a language' (of sound, form, function, and sentence), and this again may be likewise as well general as more or less special.

The grammar of the Indo-European languages is therefore a special grammar: because it treats of these languages as products of growth, and exhibits their earlier and earliest gradations, and would therefore be more accurately called a special historical grammar of Indo-European languages.

Note 1.—By comparative grammar is meant not that grammar which is merely descriptive, but that which throws light on speech-forms as far as possible, because as a rule it is not confined to the treatment of any one particular language.

Note 2.—The following work embraces only two parts, viz. scientific treatment of sounds and of forms. Indo-European function and sentence-formation we are not at present in a position to handle in the same way as in the case of the more external and intelligible branches—sounds and forms.

II. To assume one original universal language is impossible; there are rather many original languages: this is a certain result obtained by the comparative treatment of the languages of the world which have lived till now. Since languages are continually dying out, whilst no new ones practically arise, there must have been originally many more languages than at present. The number of original languages was therefore certainly far larger than has been supposed from the still-existing languages. The easiest preliminary distribution of languages which we can make is suggested by their morphological constitution.

There are—

- 1. Languages which are simply composed of invariable disjointed meaning-sounds, Monosyllabic, e.g. Chinese, Annamese, Siamese, Burmese. Such sounds we denote by R (radix). The Indo-European language would be in this stage of development when the word ai-mi (I go, $\epsilon l \mu \iota$) was sounded not so, but as i or i ma (formula R, or R+r).
- 2. Languages which can link to these invariable sounds sounds of relation, either before, or after, or in the middle, or

in more than one place at once [denoted here as s. (suffix), p. (prefix), i. (infix)]. These are Confixative languages, e.g. Finnish, Tatar, Dekhan, Basque, the languages of the aborigines of the New World, of South Africa (Bântu), and most languages in fact. In this step of development the word ai-mi would be i-ma or i-mi.

3. Languages which for the purpose of expressing relation can regularly vary their roots as well as their confixes (which have sprung from independent original roots), and can at the same time preserve intact the means of compounding. These are Inflexive languages. Such a root as is regularly varied for the end of expressing relation is here denoted by R^x (R^1 , R^2 , etc.), a similar suffix by s^x .

Hitherto we have become acquainted with only two speechstems of this class, the Semitic and the Indo-European. The latter has for all words only one formula, viz. $R^x s^x$ (s^x meaning one or more than one regularly variable suffix), and consequently a regularly variable root with a regularly variable expression of relation at the end of the suffix, e.g. ai-mi, $\epsilon i \mu \nu$, \sqrt{i} .

The Indo-European is therefore a suffix-language, together with the neighbouring languages of the Finnish stem, including Tataric, (Turkish) Mongolian, Tungusian, Samoiedish, as also with the Dravidian (Dekhan)—all included in the formula Rs.

Note 1.—The Semitic, which is not akin to the Indo-European, has more word-forms, namely R^x and pR^x , forms quite strange to Indo-European, which has only one. Besides, its vowel-system is perfectly distinct from the Indo-European, not to mention other marked differences. Cf. Aug. Schleicher, 'Semitisch und Indogermanisch' in Beitr. ii. 236–244. An attempt to deduce the fundamental language of the Semitic speech-stem has been made by Justus Olshausen in his lehrbuche der hebräischen sprache, Brunswick, 1862.

Note 2.—The augment in Indo-European is no relation-affix, no prefix, but an adherent, though originally independent word, which may moreover be omitted.

- III. The life of a language (generally called its 'history') falls under two heads—
- 1. Development in prehistoric times. As man has developed, so also has his language, i.e. the expression of his thoughts by sounds: even the simplest language is the product of a gradual growth: all higher forms of language have come out of simpler ones, the Confixative out of the Monosyllabic, the Inflexive out of the Confixative.
- 2. Decline in the historic period. Language declines both in sound and in form, and in its decay changes of meaning take place alike in function and construction of sentences. The transition from the first to the second period is one of slower progress. To investigate the laws by which languages change during their life is a most important problem in the science of language, for unless we are acquainted with them we cannot possibly understand the languages in question, especially those which are still living.

Through different developments, at different points in the province of one and the same language, the self-same tongue branches out into the ramifications of the second period (whose beginning however is likewise earlier than the origin of historic tradition), and diverges into several languages (dialects): this process of differentiation may repeat itself more than once.

All these changes took place gradually and at long intervals in the life of the language, since generally all changes in language unfold themselves gradually.

The languages which spring immediately from an original language we call fundamental; almost every fundamentallanguage has split up into languages; all these lastnamed languages may further branch into dialects; and these dialects into sub-dialects.

All the languages which are derived from one original-language form together a class of speech or speech-stem; these again are sub-divided into families or branches of speech.

IV. The name of Indo-European has been given to a distinct set of languages belonging to the Asiatico-European division of the earth, and of a constitution so consistent internally, and so different from all other languages, that it is clearly and undoubtedly derived from one common original language.

Within this Indo-European class of speech however certain languages geographically allied point themselves out as more closely related to one another: thus the Indo-European speechstem falls into three groups or divisions.

These are:

- 1. The Asiatic or Aryan division, comprising the Indian, Iranian (or more correctly Eranian), families of speech, very closely allied to one another. The oldest representative and fundamental-language of the Indo-European family, and generally the oldest known Indo-European language, is the Old-Indian, the language of the oldest portion of the Vêdas; later on, after it had become fixed in a more simplified form, and subject to certain rules, as a correct written language, in opposition to the peoples' dialects, called Sanskrit. We are not acquainted with Eranian in its original form: the oldest known languages of this stem are the Old-Baktrian or Zend (the Eastern), and the Old-Persian, the language of the Achaimenid cuneiform inscriptions (the western). To this family besides is related the Armenian, which we know only from a later date, and which must have branched off even in early times from the Eranian fundamentallanguage.
- 2. The south-west European division, composed of the Greek, next to which we must perhaps place the Albanian, preserved to us only in a later form; Italian (the oldest known forms of this language are the Latin,—especially important for us is the Old-Latin, as it was before the in-

troduction of the correct literary language formed under Greek influence,—the Umbrian and the Oscan), Keltic, of which family the best known, though already highly decomposed, language is the Old-Irish, Erse dating from 700 A.D. Italian and Keltic have more in common with one another than with the Greek.

3. The North-European division, composed of the Sclavoric family with its closely-allied Lithuanian,—the most important language for us of this group,—and the German, widely separated from both. The oldest forms of this division are the Old-Bulgarian (Old Church-Slavonic in MSS. dating from 1100 A.D.): the Lithuanian (and of course the High-Lithuanian, South-Lithuanian, Prussian Lithuanian), first known to us 300 years ago, but clearly of far greater antiquity, and the Gothic from the fourth century. Beside the Gothic, however, are the oldest representatives of German and Norse, Old-High-German, and Old-Norse, which we may bring forward when they present earlier forms than Gothic.

The greatest number of archaic particulars in point of sounds and construction of language is found in the Asiatic division, and within it, in the Old-Indian; next in point of archaicisms (i.e. preservation of similarity to the original language, by having fewer strongly-developed and peculiar forms) comes the S.W.-division, in which Greek is found to be most faithful; and lastly the N.-European group, which, if regarded as a whole, may be shown to have the most characteristic development, and to be the least faithful to the original language.

By combining these facts with the above-named relationships of the Indo-European languages, and drawing inferences as to the process of separation of the Indo-European body of language in ancient times, we get the following result: The Indo-European original language differentiates first, through unequal development in different parts where it prevailed, into

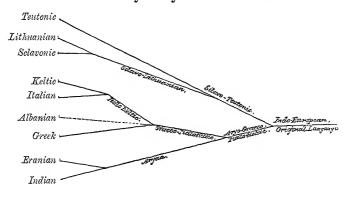
two fundamental-languages, viz. the Sclavo-Teutonic, which afterwards divided itself into Teutonic and Sclavo-Lithuanian. and the Aryo-Graeco-Italo-Keltic, the remaining portion of the Indo-European language, which divided itself into Graeco-Italo-Keltic and Aryan; and the Graeco-Italo-Keltic soon split up into Greek and Italo-Keltic, while the first, the Arvan, remained undivided for some time. Later still the Sclavo-Lithuanian, the Aryan (Indo-Eranian) and Italo-Keltic, further divided themselves. It may be that at most or at all of the divisions there arose more languages than we now know of, since probably many Indo-European languages have died out through lapse of time. The further eastward an Indo-European people lives, the more archaicisms are found in its language: the further westward they have gone, the fewer archaicisms, and the more numerous new-formations are found in the language. From these and other indications we infer that the Sclavo-Teutonic race first began its wanderings westwards; next followed the Graeco-Italo-Keltic; and of the Aryans who remained behind, the Indians journeyed south-eastward, the Eranians south-westward. The home of the Indo-European original race must be sought in the highlands of Central Asia.

It is only of the Indians, who were the last to leave the parent stem, that it is quite certain that they expelled an aboriginal race from their later dwelling-place, a race of whose language much passed into their own: a similar process is highly probable in the case of many other Indo-European peoples.

The most ancient divisions of the Indo-European, up to the origin of the fundamental languages belonging to the families of speech formed from the speech-stem, may be seen in the following table (see next page). The length of the lines shows the duration of the periods, their distances from one another, the degrees of relationship.

Note.—In the present work an attempt is made to set forth the inferred Indo-European original language side by side with its really existent derived languages. Besides the advantages offered by such a plan, in setting immediately before the eyes of the student the final results of the investigation in a more concrete form, and thereby rendering easier his insight into the nature of particular Indo-European languages, there is, I think, another of no less importance gained by it, namely that it shows the baselessness of the assumption that the non-Indian Indo-European languages were derived from Old-Indian (Sanskrit), an assumption which has not yet entirely disappeared. This view has found supporters up to the present date, especially as regards Old-Baktrian (Zend). The term 'Sanskritist,' not seldom applied to Indo-European philologers (meaning that we concede to Sanskrit a position which it does not discisse by deriving other languages from Sanskrit, or explaining them by it, instead of studying them fundamentally), is likewise shown to be quite inapplicable by the plan employed in the Compendium. The disadvantage of having in certain cases Indo-European original forms inferred which are more or less doubtful, does not weigh at all against the advantages which, according to our view, are attained by the arrangement of the subject used hereafter.

A form traced back to the sound-grade of the Indo-European original language, we call a fundamental-form [f.f.] (e.g. Lat. generis, f.f. ganasas; Gk. yévous, f.f. ganasas). Hence it is only when forms of different sound-grades are brought to one and the same sound-grade, that we can compare them with one another. When we bring forward these fundamental-forms, we do not assert that they really were once in existence.



GRAMMAR.

PHONOLOGY.

A. VOWELS.

INDO-EUROPEAN ORIGINAL-LANGUAGE.

§ 1.

Since in the citation of examples we make use not only of vowels but also of consonants, before we treat of the vowels we proceed to set forth a table of the speech-sounds collectively, arranged according to the physiology of sound, followed by the necessary remarks upon pronunciation, etc.

TABLE OF THE SOUNDS OF THE INDO-EUROPEAN ORIGINAL LANGUAGE,

i.e. those sounds from which arose the sounds of the different Indo-European languages, according to the laws of sound-change which come into play during the life of a language, and to which accordingly, they may be traced as to a common source.

CONSONANTS.							VOWELS.		
MOMENTARY SOUNDS.				PROLONGED SOUNDS.					
	1	sonant	ASPIRATED.	11		NASALS. sonant			
Gutt.	k	g	gh					a -	\ \ aa, āa \ ai, āi
Pal.					y			i) (00, 00)
Ling.							r		au, āu
Dent.	t	d	dh	s		n			
Lab.	p	ъ	bh		v	m		u.	

§ 1. Note 1.—The three aspirates and the vowel-diphthongs with \bar{a} (thus $\bar{a}a$, $\bar{a}i$, $\bar{a}u$) probably were wanting at an earlier period in the life of the Indo-European original language; in the most archaic state of the language, while it was yet uninflected, all

the vowel-diphthongs were absent.

Thus the Indo-European original language probably possessed six momentary sounds, viz. three mutes, and three sonants; six consonantal prolonged sounds, viz. three spirants, and three so-called liquids, i.e. the two nasals n, m, and r (l is a secondary offshoot of r), and six vowels. At a later period, shortly before the first separation, there were nine momentary, and nine vowel-sounds. We must not overlook the numerical proportion belonging to the number of sounds.

Note 2.—Sonants (or medials) are those consonants in whose production the glottis gives a simultaneous sound: this is the case with all nasals and r- and l-sounds, whilst the momentary consonants and spirants can be pronounced with or without the accompaniment of the vocal-sound. Sonants thus have something of the vowel in their composition. The aspirates are double sounds; both sounds of which they consist, the preceding momentary consonant and the subsequent aspiration,

must be heard in pronunciation.

Note 3.—The momentary consonant which precedes the pronunciation of an initial vowel—the so-called spiritus lenis, the aleph or hamza of the Semitic,—which is formed by the sudden separation of the vocal chords, should properly be represented here and in the other languages in the tables, and expressed by a special character (perhaps', after Gk. analogy). It is a consonant sound produced in the larynx alone, and must therefore be placed in a laryngal class of sounds (to which h also belongs, v. post. § 4). Nevertheless I have ventured to abide by the majority of Indo-European spelling-systems, and to leave this sound uncharacterized.

§ 2. Vowels of the Indo-European Language.

Fundamental vowel.			1st Step.	2nd Step.	
1.	a-scale	\boldsymbol{a}	a+a=aa	$a + aa = \bar{a}a$	J**
2.	i-scale	i	a+i=ai	$a + ai = \overline{ai}$	¥
3.	u-scale	u	a+u=au	$a + au = \overline{a}u$.	X

Note 1.—The second step occurs in the Asiatic, South-European, and North-European divisions of the Indo-European languages, and therefore in all probability traces its existence

from the original language, though the separate languages often § 2.

disagree in its use.

Note 2.—aa and $\bar{a}a$ were perhaps even in early times both compressed into \bar{a} . But at the same time the two $\bar{a}s$ which thus arose are distinguished from one another, e.g. in Greek and Gothic \bar{a} of the 1st is distinguished from \bar{a} of the 2nd step. Notwithstanding that the earliest Indian and the Zend seem to bear evidence against the contraction of both as, we have placed throughout hereafter an \bar{a} for aa and $\bar{a}a$ in original Indo-European words, chiefly because it would be impossible to distinguish always between a 1st and a 2nd step-form.

a, the commonest vowel, constitutes a class by itself; i and u are by nature very similar, and are fundamentally different from a. i and u have the consonants y and v as collateral relations, and frequently as representatives, whilst a cannot pass into any consonantal sound, and has therefore the vowel-nature in a higher degree than the more consonantal sounds i and u. a is by far the most frequent vowel in the Indo-European language, occurring more often than i and u taken together.

Each vowel can move in its own scale only: this takes place in the root itself for the purpose of expressing relation: the vowels in stem-formative and word-formative suffixes likewise are capable of step-formation, since these suffixes themselves have arisen from roots originally independent. The fundamental-form of the root is always to be cited with the fundamental vowel. Before two consonants the step-formation does not take place; the fundamental vowel a (never i or u) is found in all roots which end in two consonants.

The essence of inflexion depends upon the vowel-system.

Vowel-lengthening must not be conceded to the original language as being of secondary origin.

Note.—Even where the correspondence between different Indo-European languages seems to point to a greater antiquity in the lengthening (e.g. in many nom. sing. as Sk. pitār(s), Gk. πατήρ, Old-Lat. patēr, Goth. fadar, i.e. *fathār; Sk. dúrmanās, Gk. δυσμενής; Sk. άςmā, Gk. ποιμήν, Lith. akmů, Lat. homō,

§ 2. Goth. guma, i.e. *gumā) we believe that we see an unoriginal phenomenon, which suitably to the nature of the case did not become developed in the different Indo-European languages till after their separation from the original language (not unfrequently the conformity is wanting even in this particular, cf. Sk. bháran, Gr. φέρων, Lat. ferens, Goth. bairands, Sclav. bery). In the original language we can cite here only the pure fundamental forms, i.e. the word preserved perfectly intact as regards all its parts (thus, e.g. patars, dusmanass, akmans).

EXAMPLES.

1. a-scale.

2. i-scale.

i-masi (1 pl. pres.), \sqrt{i} (go), ai-mi (I go); vid-masi (1 pl. pres.), \sqrt{vid} (see, know), vaid-mi (I see), vaid-aya-ti (3 sg. pres. caus. vb.), vi-vāid-ma (pf.); \sqrt{div} (shine), div-am (acc. sg. word-st. div, light, bright sky, $Ze\acute{\nu}s$), daiv-a-s (shining, diuos, deus), etc.

3. u-scale.

bhug-na-s (past part. pass.), a-bhug-am (1 sg. aor.), \sqrt{bhug} (bend), bhaug-āmi (1 sg. pres.) bu-bhāug-ma (1 sg. pf.); yug-a-m (iugum), yug-ta-s (iunctus), \sqrt{yug} (iungere), yu-yāug-ma (1 sg. pf.), etc.

Note.—The agreement of Greek and Gothic proves the 2nd step in pf.; $\pi\epsilon\phi\epsilon\nu\gamma a$ gives no evidence against the 2nd step, but is a Graecism for * $\pi\epsilon\phi\nu\gamma a$; cf. forms like $\lambda\epsilon\lambda\nu\pi - a$, $\lambda\lambda\nu\pi$, which therefore would lead us to expect ou here, because $\epsilon\nu$ corresponds to $\epsilon\nu$; v. sub Greek vowel-system.

§ 3. Vowel Sound-laws

(i.e. influence of vowels and consonants on vowels) were not existent in the original Indo-European language.

A meeting of several vowels occurs but seldom, since hitherto

no consonants have been elided, and prepositions, like separable § 3. adverbs, stand before their verb. Nevertheless, if two vowels do come into contact with one another in consequence of word-formation, hiatus perhaps occurred in the most original state of the language; in early time, however, a may have become fused with following vowels: thus probably i (and u, but examples are wanting) after a becomes combined with it into a diphthong, in cases like bharait (3 sg. opt.), \sqrt{bhar} (bear), pres. st. bhara-, i is the sign of the opt.; the opt.-st. is thus bharai-, t=sf. of 3 sg. But the sequence of two vowels, of which the former is i or u, will not be considered as a hiatus, e.g. i and u (so also ai, $\bar{a}i$, au, $\bar{a}u$) remain unchanged before other vowels, as i-anti (3 pl. pres. \sqrt{i} , go), ku-kru-anti (3 pl. pf.) krau-as (neut. the hearing, \sqrt{kru} , hear).

Note.—The earliest Old-Indian points clearly to the non-avoidance of hiatus between i, u (and the diphthongs which have these vowels as their key-elements), and following vowels. We may nevertheless suppose that iyanti, kukruvanti, krauvas were pronounced, i.e. that i and u before vowels split up into iy, uv, as this pronunciation almost arises from them.

SANSKRIT.

Tabular View of Sanskrit Sounds.

			TAB	ULAR '	/ IEW	OF SAI	NSKRIT	Sounds.			§ 4	
CONSONANTS.										VOWELS.		
-	MENTAR	Y.		PROLONGED.								
	i .	IRATED.		sonant		RANTS. sonant		r-& l-sound.				
Gutt.	k	g	kh	gh	°°	h	'n		αā	$\left. \right\}_{ar{e}}$ $\left[ar{a}i \right]$		
Pal.	ľ	ģ	Кh	ģh	ç	y(j)	ń		i ī) " ""		
Ling.	ţ	ą	ţh	фh	š		ÿ	r l	$r\bar{r}l$		}ō āu	
Dent.	t	ď	th	dh	8		n					
Lab.	p	ь	ph	bh		v	m		u ū			

§ 4. The nasalised pronunciation of vowels (as Fr. en, on) is indicated by \tilde{a} , \tilde{a} , etc.): this pronunciation arises through the change of a following nasal consonant according to sound-laws.

The accented syllable is marked '.

Note 1.—If we compare the above table with the table of Indo-European sounds in § 1, we shall find that the sounds collectively existed in the original language likewise (\bar{e} = original ai, \bar{o} =original au), but in addition to them we shall see a number of very similar unoriginal sounds, which have arisen from those original sounds according to the laws of language, and now stand side by side with them.

Note 2.—The doctrine of the Sanskrit alphabet belongs to Sanskrit special-grammar, as an appendix to the sound-rules.

Pronunciation. Known to us through the Hindu, which is on the whole a very good representative, and by means of the physiology of sounds, and the history of language.

The remarks on the pronunciation of the aspirates in $\S 1$ hold good here also: they are distinct double sounds, and the h must be made audible after the momentary sounds.

We are accustomed to pronounce the momentary palatals k, g, kh, gh, like tsch, dsch, or, more accurately, like French dg, tschh, dgh, a pronunciation which is correct only for a later state of the language; in the earlier period the correct pronunciation of k and g would be a close blending of kg, gg—almost like k, g, in German kind, gieng (in the case of the aspirates the aspiration is still naturally added). Our pronunciation of these sounds is nevertheless clumsy (especially before other sounds than i, e), and we therefore willingly abide by the somewhat incorrect traditional pronunciation, i.e. momentary dental + lingual spirant.

'Lingual,' for want of a better term, is used for that part of the mouth between the palate and the teeth. The momentary linguals are sounds like t and d, except that they are produced not by the teeth, but much further back towards the palate:

to effect this the tongue must be bent backwards: these sounds are called by the Hindus * head-sounds' (which has been mistranslated 'cerebral'): in the conventional European pronunciation they are not distinguished from the dentals.

Of the spirants, the exact pronunciation of $^{\circ}_{\circ}$ (a variation fr. s acc. to sound-laws) is not known; it has no equivalent in sound: we pronounce it either as h or not at all.

h is always audible and equivalent to a sonant, and is therefore like our h, but must, however, be sounded emphatically. The h is a fricative noise formed in the upper part of the larnyx, and belongs (like', § 1, Note 3) to the class of laryngal consonants. For convenience, here and in the other languages where it makes its appearance, we have placed it amongst 'Gutturals.' h can be produced either with or without vibration of the vocal chords, *i.e.* as a *sonant* or as a *mute*.

g must be pronounced like y, but without its accompanying vocal-sound, and probably somewhat more sharply (with closer contraction of the organ), perhaps like ch in sichel; the conventional pronunciation as a sharp sh is wrong, and must be avoided; g has nothing in common with s.

 $\check{s} = Germ. sch, Fr. ch.$

Nasals. \dot{n} is the guttural nasal, and must therefore be pronounced like Germ. n in enkel, or ng in lange; n is the pal. nas., which must have been sounded as a close blending of ny (as Fr. gn in campagne); n, the head-nasal, takes the place of formative n, where t or d follows: our pronunciation of it is unsuccessful, for we usually confuse it with n.

r and l as vowels are perhaps sounded as in Germ. hadern, handeln, pronounced with an inaudible e as er, el; the existence of a strong vowel-sound in vowel r is expressly attested by Hindu grammarians (Benfey, Or. und Occ. iii. $25 \ sqq$.). \bar{r} is = long r, and should therefore be distinguished from it by a more prolonged pronunciation. Also r before consonants was pronounced as a consonant, with a strongly perceptible vibration of

the chords (as in other languages, especially in Zend), which even appears in spelling as a perfect vowel (a, i) after r. (Benfey, ib. p. 32.)

Note.—The Bohemian likewise has r, l, as vowels; the Slovack dialect has, moreover, the long form of each sound.

SANSKRIT VOWELS.

Of special importance are the change of a to i, $\bar{\imath}$, and u, \bar{u} , and its total loss (the latter rarely happens in the case of the other vowels). In the latter cases r and l after consonants form syllables, and count as vowels; r is then even capable of being lengthened to \bar{r} (as i and u to $\bar{\imath}$ and \bar{u}).

Besides short i and u, Sanskrit has further their unoriginal lengthenings $\bar{\imath}$, \bar{u} ; ai and au have been compressed into \bar{e} and \bar{o} (through approximation of a to i and u, whereby it became e and o; and through a further like assimilation of i and u to a, which thus passed into the same vowels e and o; from ee, oo arose \bar{e} , \bar{o}).

Here for the first time we are met by a very important law affecting the life of a language—the law of assimilation (partial and total), and by the no less frequent 'vowel-weakening,' a favourite change, especially in the case of a. The vowel-scales of the Sanskrit are now therefore as follows:—

			Weakening.	Fundvowel.	1st Step.	2nd Step.
1.	a-scale	loss;	$i, u; \bar{\imath}, \bar{u};$	α	\bar{a}	$ ilde{a}$
2.	i-scale			i	$ar{e}$	$ ilde{a}i$
3.	u-scale		,	u	ō	$\bar{a}u$

Note.—The a-scale is thus enriched by one member: a negative step-formation (i.e. the weakening) has thereby placed itself in a parallel line with the positive.

EXAMPLES.

1. a-scale.

The weakening occurs principally through the influence of the accent; a similar influence is likewise exercised by assimilation to i, u of the following syllable, or the preceding con- \S 6. sonant has an effect equivalent to this assimilation.

Loss of a occurs most frequently before r, also after r, in which cases ar and ra followed by a consonant become vowel r; in parallel cases al becomes vowel l, va=u, ya=i; loss of a is however by no means confined to these instances.

Examples of complete loss of a are:

 $r=ar; \sqrt{bhar}$ (bear, pres. $bhár-\bar{a}mi$, $\phi\epsilon\rho\omega$, fero), $bhr-t\acute{a}-s$ (n. sg. masc. part. perf. pass.); \sqrt{kar} (make, 3 sg. pres. $kar-\bar{o}ti$), $krt-\acute{a}-s$ (made), $ka-kr-m\acute{a}$ (1 pl. pf.); \sqrt{mar} (mori), $mrt-\acute{a}-s$ (mortuos, $\beta\rho\sigma\tau\acute{o}\varsigma=*\mu\rho\sigma-\tau\sigma-\varsigma$); st. $m\bar{a}-t\acute{a}-t$ ($\mu\eta\tau\acute{e}\rho$ -, mater), $m\bar{a}-t\acute{r}-bhyas$ (matribus), $m\bar{a}-t\acute{r}-\check{s}u$ ($\mu\eta\tau\rho\acute{a}\sigma\iota$), etc.

This r is subsequently treated acc. to analogy of the other vowels, and thus is also lengthened; e.g. acc. pl. $m\bar{a}$ - $t\hat{r}$ -s (matres, $\mu\eta$ - $\tau\epsilon\rho$ -as), $d\bar{a}$ - $t\hat{r}$ -n (datores, δo - $\tau\hat{\eta}\rho$ -as), st. $d\bar{a}$ - $t\hat{a}r$ - (dator, $\delta o\tau\hat{\eta}\rho$).

l=al occurs only in \sqrt{kalp} (3 pres. med. $k\acute{a}lp-a-t\ddot{e}$, keep one-self right, succeed), which stands for original karp (v. 'Consonants'), $klp-t\acute{a}-s$ (n. sg. masc. past part. pass.).

r=ra; prkh-áti (3 sg. pres.), \sqrt{prakh} (pray, cf. Goth. frah, Lat. prec, e.g. in prak-šyáti, 3 sg. fut.); $prth-\acute{u}-s$ (broad), \sqrt{prath} (cf. $\pi\lambda\alpha\tau-\acute{v}-\varsigma$, Lith. $plat-\grave{u}-s$), etc.

Note.—The Hindu grammarians treat r, l, as fundamental vowels, ar, al, as their first step-formations. As a vowel of the first step it is generally=a (for it often stands parallel to \bar{e} , \bar{o} , also), in the second it is perfectly= \bar{a} . The first step is called by the Hindu grammarians $gun\dot{a} \cdot s$ (masc. 'quality'), the second step $v\dot{r}ddhi$ -s (fem. 'increase,' \sqrt{vardh} , to increase, fmd. with sf. ti), expressions which have often been introduced into European works on language.

Loss of a, without admitting vocalisation of consonants, occurs not only before other consonants, but also before r, which is capable of being vocalised, in those cases where a vowel follows r (from ar); in which case, as in all others where a is lost before a consonant, the latter alone remains. Examples: $k'a-kr\acute{e}$

§ 6. (1. 3. sg. pf. med.), \sqrt{kar} (make), for *ka-kar-ē, and this fr. 1. *ka-kar-mē, 3. *ka-kar-tē; ka-kr-ús (3: pl. pf. act.), fr. *ka-kar-anti.

Loss of a before other consonants, e.g. ģa-ghn-ús (3. pl. pf.), \sqrt{han} , ghan (kill), for ģa-ghan-ús (sg. ģa-ghān-a); ģa-gm-ús (3. pl. pf.), \sqrt{gam} (go), for *ģa-gam-us (sg. ģa-gām-a); s-ánti (3. pl. pres.), \sqrt{as} (esse), for *as-anti (as s-unt for *es-unt); s-yáti (e.g. in vy-ava-syáti, he determines), for *as-yati, \sqrt{as} , sa, so too g-yáti for *ag-yati, f.f. *ak-yati, \sqrt{ag} , ça (acuere); á-pa-pt-at (3. sg. aor.) for *a-pa-pat-at, \sqrt{pat} (fall, fly, $\pi\tau$ -éσθαι), etc.

i=ya (a is lost and y becomes i); $i\ddot{s}$ - $t\acute{a}$ -s (past part. pass.) for *yag-ta-s, $\sqrt{ya\acute{g}}$ (offer, worship; 3 sg. pres. $y\acute{a}\acute{g}$ -ati), i- $y\acute{a}\acute{g}$ -a (3 sg. pf.) for *ya- $y\acute{a}\acute{g}$ -a, $i\acute{g}\acute{u}s$ (3 pl. pf.) for *ya- $ya\acute{g}$ - $u\acute{s}$, f.f. *ya-yag-anti; $v\acute{u}$ dh-yati (3 sg. pres.), \sqrt{v} yadh (wound, slay), $v\acute{t}$ - $v\acute{t}$ dh- $u\acute{t}$ s (3 pl. pf., 3 sg.= $v\acute{t}$ -vy \acute{u} dh-a), etc.

§ 7. Weakening of a—1. to i and u occurs before r, sometimes with assimilation to vowel of following syllable; weakening of a to i often occurs without influence of following sounds. u in certain cases corresponds to original an, am (the nasal is lost, after dulling the preceding a into u).

Examples. gir-i-s (mountain), \sqrt{gar} (be heavy), Zend gairis, both from *gar-i-s (cf. Sel. gor-a, with another st.-termn.); gur-u-u-s (heavy), cf. Gk. $\beta a\rho$ -u-u-s, f.f. of both *gar-u-u-s, the original \sqrt{fm} . gar comes to light only in the Sk. step-forms of this word, e.g. gar-i s-tha-s (superl. of guru-s); kur-u (2 imper. act.), kur-u-te (3 sg. pres. med.), and other like forms of \sqrt{kar} (make),—these stand for *kar-u, *kar-ute, etc., whilst the latter again stand for *kar-nu, *kar-nute, etc. (v. post. 'Rules of Con-

jugation'), $kur-m\acute{a}s$ next for *kur-umas, fr. *kar-nu-mas, where, § 7. as in the similar forms, the u which caused the assimilation is lost; $pur-\acute{u}-s$ (many), f.f. and Old-Persian par-u-s, cf. $\pi o\lambda -\acute{v}-\varsigma$, \sqrt{par} (fill), $pur-\acute{a}-m$, $pur-\acute{t}$ (state), from same \sqrt{par} , with a changed to u before r, without assimilating influence (cf. $\pi o\lambda -\iota -\varsigma$, f.f. par-i-s).

Weakening of a to i is frequent, e.g. kir-áti (3 sg. pres.), \sqrt{kar} , pf. ka-kar-a (pour out); gir-ati (3 sg. pres.), \sqrt{gar} , pf. ga-gar-a(throw); çiš-más acc. to sound-laws for *çis-mas (1 pl.), beside $\zeta as-mi$ (1 sg.), pres. st. and $\sqrt{\zeta}as$ (pure \sqrt{fm} . ζas , bid). This weakening occurs especially in the case of roots in α (which bythe-bye we find wrongly classified with $\sqrt{\text{termns. }} \bar{a}, \bar{e}, \bar{a}i, \bar{o}, \text{acc.}$ to the system of the Hindu grammarians), e.g. sthi-tá-s (sta-tu-s, $\sigma \tau a - \tau o - \varsigma$), \sqrt{stha} (stand); $hi - t \acute{a} - s$ for earlier (Vêd.) $dhi - t \acute{a} - s$ ($\theta \epsilon - \tau o - \varsigma$), \sqrt{dha} (set); mi-tá-s (like the preceding, past part. pass.), \sqrt{ma} (measure); st. pi-tar- for *pa-tar-, cf. πa - $\tau \acute{e}\rho$ -, pa-ter-, \sqrt{pa} (protect); further in pres. redupln. e.g. bi-bhár-mi, \sqrt{bhar} (bear), $ti-\dot{s}th\bar{a}-mi=l\sigma\tau\eta\mu\iota$, f.f. of both is *sti-st\bar{a}-mi, earlier *sta-st\bar{a}-mi, \sqrt{stha} (stand; cf. Sk. $d\acute{a}$ - $dh\bar{a}$ -mi, $d\acute{a}$ - $d\bar{a}$ -mi, and Gk. $\tau \acute{\iota}$ - $\theta \eta$ - $\mu \iota$, $\delta i - \delta \omega - \mu i$, where the Sk. does not yet show that weakening which has occurred in Gk.).

u=an, am, e.g. in termn. of 3 pl. -us, fr. -anti, -ant, e.g. $bh\acute{a}r\ddot{e}y$ -us= $\phi\acute{e}\rho\iota\dot{e}\nu=*bharay$ -ant (3 pl. opt. pres. act.), $babhr\acute{u}s=*babharanti$ (3 pl. pf. act.), $ubh\acute{a}$, $ubh\acute{a}u= \breve{a}\mu\phi\omega$, $amb\bar{o}$; thus later languages show the more original form, etc.

2. a becomes weakened to $\bar{\imath}$, \bar{u} , likewise in the combination ar, so that $\bar{\imath}r$, $\bar{u}r$, the latter after labial consonants, are considered as of the same force as vowel r; the weakening to $\bar{\imath}$, however, occurs not only before r, but also not seldom in other cases.

 $\bar{u}r=r$ (vowel)=ar after labial initial \sqrt{s} sounds, e.g. $p\bar{u}r$ - $n\acute{a}$ -s (plenus) for *pr-na-s, Zend pere-na-s (Zend ere = Sk. vowel r), f.f. *par-na-s, \sqrt{par} (fill), etc., yet also $ka\acute{n}$ - $k\bar{u}r$ -, intensive pres. st. \sqrt{kar} (go), and the like.

 $\bar{\imath}r = r \text{ (vowel)} = ar$ after all except labial initial sounds, e.g.

§ 7. stīr-ná-s (past part. pass.) for str-ná-s, f.f. star-na-s, √star (strew); dīrghá-s for *drgha-s (long), Zend daregha-s, Gk. δολιχό-s, etc., f.f. *dargha-s, cf. compar. and superl. formed in Sk. with step-fmn. of √vowel a, compar. st. drágh-īyās-, superl. st. drágh-išṭha-.

i as a weakening of a often occurs, especially in cases of roots in a (like its weakening to i), nevertheless it also often occurs in the case of a non-radical a belonging to formative affixes, e.g. $h\bar{\imath}-n\dot{a}-s$ for *ha-na-s (past part. pass.), \sqrt{ha} (leave, 3 sg. pres. $\dot{g}\dot{u}-h\bar{a}-ti$); $p\bar{\imath}-ta-s$ (past part. pass.), \sqrt{pa} (drink, 3 sg. pres. piba-ti for *pi-pa-ti, fr. *pa-pa-ti); $yu-n\bar{\imath}-m\dot{a}s$ for *yu-na-mas (1 pl. pres.), cf. $yu-n\dot{a}-ti$ (3 sg. pres.), pres. st. yu-na-, \sqrt{yu} (iungere), etc.

Note 2.—Cf. the cases where $\bar{\imath}$ apparently stands for α , though it really is a contraction of ya, $y\bar{a}$, or an auxiliary vowel, § 15, c, f.

§ 8. The fundamental vowel a appears in Sk. as the commonest vowel in roots and relation-sounds, e.g. ád-mi (1 sg. pres.), √ad (edere); ás-ti (3 sg. pres.), √as (esse); bhár-asi (2 sg. pres.), á-bhar-at (3 sg. impf.), bhár-antas (φέροντες, n. pl. masc. pres. part. act.), √bhar (bear); áp-as (opus), áp-as-as (operis); mán-as (μέν-ος), mán-as-as (*μεν-εσ-ος, μένους); áç-va-s, f.f. akvas (equos, ὕππος for *ἰκFος); sa (δ), ta-m, (τό-ν, is-tu-m); çata-tamá-s (centesimus), etc. The step-formation of a to \bar{a} cannot further be analysed § 9. into first and second steps (as in Gk., Lat., Goth.), and, moreover, can scarcely—only by means of the analogy of completely corresponding words in i and u—be distinguished from lengthening. Therefore we hesitate to make the distinction between lengthening and step-formation in the case of f. vowel a, and accordingly probably admit many forms as steps, which would be more accurately denoted as lengthenings. The step-formation of a to \bar{a} occurs in roots and in relation-sounds.

Examples of step-formed roots with $\sqrt{\text{vowel }} a$ are $ba-bh\acute{a}r-a$ (3 sg. pf.) bes. $bh\acute{a}r-ami$ (1 sg. pres.), \sqrt{bhar} (bear); $u-v\acute{a}k'-a$ (3 sg. pf.) bes. $v\acute{a}k-ti$ (3 sg. pres.), $\sqrt{vak'}$ (speak); $v\acute{a}s-as$ (uestis) bes. $vas-t\acute{e}$ (3 sg. pres. med.), \sqrt{vas} (clothe); $k\bar{a}r-\acute{a}yati$ (3 sg. pres. causat. vb.) bes. $kar-\acute{o}-ti$ (3 sg. pres.), \sqrt{kar} (make), etc.

Note.—The roots which end in a occur mostly in step-raised forms [whence arose the grammatic rule that roots in \bar{a} appear only in pronominal functions, as ta (n. sg. masc. sa, acc. ta-m dem.), ya (n. sg. masc. ntr. ya-s, ya-t rel.), ka (n. acc. sg. masc. ka-s, ka-m), etc., whilst all verbal roots end in \bar{a} —acc. to Hindu grammarians in \bar{a} , \bar{e} , $\bar{a}i$, \bar{o}]. Also the un-raised forms, indeed the shortened forms of these roots are not rare, e.g. $\dot{g}i$ - $g\bar{a}$ -ti, ýá-gā-ti (3 sg. pres.), but ga-tá-s (past part. pass.), ğa-hi (2 sg. imper.), gά-kkhati, f.f. ga-skati (3 sg. pres.), cf. βέβαμεν, βατής, \sqrt{ga} (go); $d\acute{a}$ - $d\ddot{a}$ -mi (1 sg. pres. $\delta \acute{\iota}$ - $\delta \omega$ - $\mu \iota$), but da-d- $m\acute{a}$ s for *da-da-mas (1 pl. pres.), cf. δi - δo - $\mu \epsilon \nu$, δo - $\sigma i s$, δo - $\tau \eta \rho$, $d \check{a} m u s$, \sqrt{da} (give); dá-dhā-mi (1 sg. pres.), but da-dh-más, fr. *da-dha-mas, cf. $\tau l - \theta e - \mu e \nu$, $\theta \acute{e} - \sigma \iota s$, $\theta \acute{e} - \tau \acute{o} s$, \sqrt{dha} (set); $\acute{a} - p \ddot{a} - t$ (3 sg. aor.), pā-syá-ti (3 sg. fut.), but pí-ba-ti for *pi-pa-ti, fr. *pa-pa-ti (3 sg. pres.), cf. $\pi \acute{e}$ - πo - $\mu a \iota$, $\pi \acute{o}$ - $\sigma \iota s$, \sqrt{pa} (drink); $p \acute{i}$ -t i (3 sg. pres.), but pá-ti-s, cf. πό-σις, Goth. fa-th-s, i.e. *fa-di-s, Lith. pa-t-s, for *pa-ti-s (lord), with weakening of a to i in pi-tar- (n. $pit\dot{a}$), cf. πα-τήρ, f.f. pa-tar-, √pa (protect); ti-šthā-mi, ί-στη-μι (1 sg. pres.), but ti-stha-ti for *sti-sta-ti, fr. *sta-sta-ti (3 sg. pres.), with weakening of a to i in sthi-tá-s, f.f. *sta-tá-s, cf. στα-τό-ς, sta-tu-s, √stha, original sta (stare), etc. Here accordingly, as in many other like cases, the root-forms are evidently ga, dha, da, pa, pa, stha; so too a is everywhere to be assumed to be the root-sound, even where it happens that the raised forms only are seen in

§ 9. the existing language. Cf. my treatise on 'α-roots in Indogermanic,' Beitr. ii. 92–99.

a as a sound expressing relation is found raised in termin. a of pres. st. $bh\dot{a}r\bar{a}$ -mi (1 sg. pres.), $bh\dot{a}r\bar{a}$ -masi (1 pl. pres.) bes. $bh\dot{a}ra$ -si (2 sg. pres.), $bh\dot{a}ra$ -ti (3 sg. pres.), etc., $bh\dot{a}ra$ -i is pres. st. of \sqrt{bhar} (bear); in almost all cases of the fem. of a- st., e.g. $n\dot{a}v$ -a $n\dot{a}v$ -a max (n. acc. sg. fem. nou-a, $v\dot{\epsilon}Fa$) bes. nava-nava-max

§ 10. 2. *i*-scale.

Fundamental vowel i; i-más, cf. i- μ e ν (1 pl. pres.), \sqrt{i} (i-re); vid-más (1 pl. pres.), cf. $Fl\sigma$ - μ e ν , Hom. $Fl\delta$ - μ e ν , $\sqrt{v}id$ (uid-ere, scire); vig-áti (3 sg. pres.), vig-as (n. pl. people, husbandmen), $\sqrt{v}ig$ (go in, dwell); div-am div-ás (acc. g. sg. of n. $dy\bar{a}u$ -s, sky), \sqrt{div} (shine; cf. $\Delta\iota F$ -ós, similarly fr. $Ze\acute{\nu}s$ = * $\Delta\nu$ e ν s); pdk-ti-s (fem. coctio), cf. π e π - $\sigma\iota$ -s for * π e π - $\tau\iota$ -s, $\sqrt{p}ak$, π e π , origl. kak, cf. Lat. coe, Lith. kep (coquere), formed through sf. -ti-, f.f. therefore kak-ti-s.

 $\bar{\imath}$ is not seldom a lengthening of genuine i, just as we have already found it to be a lengthening of i=a. The laws under which this lengthening takes place are not discovered in every instance. The lengthened i is often interchanged with the unlengthened i, and is subject to step-formation and change (to iy, y), like the latter.

In cases like $p\acute{a}t\bar{\imath}$ -n (acc. pl. msc.), f.f. pati-ms, st. $p\acute{a}ti$ -(lord); $p\acute{a}kt\bar{\imath}$ -s (acc. pl. fem.), f.f. pakti-ms, st. $p\acute{a}kti$ - (coctio), we clearly see a compensatory lengthening, v. post. (§ 15, d), where also the lengthening bef. y is yet to be mentioned (§ 15, a), as

e.g. $\bar{\imath}$ - $y\acute{a}t$ bes. i- $y\acute{a}t$ (3 sg. opt.) \sqrt{i} (ire). Bef. final r in noun- \S 10. stt., as bef. r folld. by a sf. which begins with a conson., lengthening occurs in the case of i and u, e.g. st. gir- (speech; acc. sg. gir-am), n. sg. $g\bar{\imath}r$ for *gir-s, loc. pl. $g\bar{\imath}r$ - $s\acute{u}$, instr. pl. $g\bar{\imath}r$ -bhis for *gir-su, *gir-bhis.

So also in roots $\bar{\imath}$ appears bes. i, and is grammatically arbitrary, since in these cases the \sqrt{fm} is usually characterized by the long vowel, as e.g. \sqrt{bhi} , not $bh\bar{\imath}$ (frighten), cf. bi-bhi- $m\acute{a}s$ and bi- $bh\bar{\imath}$ -mas (1 pl. pres.; 3 sg. bi- $bh\acute{e}$ -ti); in other roots it happens that only the lengthened vowel appears, e.g. $n\bar{\imath}$ - $t\acute{a}$ -s (past part. pass.), \sqrt{ni} ($n\bar{\imath}$ acc. to Grammarians and Dictt.; 'lead'); $pr\bar{\imath}$ - $t\acute{a}$ -s, \sqrt{pri} ($pr\bar{\imath}$, delight), etc.

Note 1.—Root-fms. with final vowels are particularly often mentioned in the lengthened fm. in gramm. and dictt., because the lengthening was particularly popular in these cases. On the unoriginality of $\tilde{\imath}$ and \tilde{u} in Indo-Eur., cf. my remarks in Beitr. i, 328-333.

Note 2.—On tr-tiya-s (ter-tiu-s), in wh. tr can be taken as a weakening fr. tri (st. of numeral 3), v. sub. 'Numerals.'

The 1st step of i is in Sk. \bar{e} , e.g. \acute{e} -mi ($e\bar{i}$ - μi), f.f. ai-mi, § 11. \sqrt{i} (ire); $v\acute{e}d$ -a ($Fo\hat{i}\delta a$), $v\acute{e}d$ -a-s (n. sg.; sacred writings of the Hindus, $\nabla\bar{e}da$), \sqrt{vid} (see, know); vi- $v\acute{e}g$ -a (3 sg. pf.), $v\acute{e}c$ -a-s (n. sg. house, cf. $Fo\hat{i}\kappa$ -o-g, $u\bar{i}c$ -u-s), f.f. vaik-a-s, \sqrt{vig} (go in); $d\bar{e}v$ - \dot{a} -s (deus), f.f. daiv-a-s, \sqrt{div} (shine); $p\acute{a}k$ - $t\bar{e}$ -s (g. sg.), $p\acute{a}k$ -ti-s (coctio), $p\acute{a}t$ - \bar{e} -s (g. sg.), $p\acute{a}t$ -i-s (lord); bi- $bh\acute{e}$ -ti (3 sg. pres. redupl.), $\sqrt{b}hi$ (frighten); $n\acute{e}$ -tra-m (eye, lit. 'the guiding one'), $n\acute{a}y$ -ati (3 sg. pres.), nay= $n\bar{e}$ (v. post. § 14, d), \sqrt{ni} (lead); $c\acute{e}$ - $t\bar{e}$ ($\kappa\hat{e}\hat{i}$ -tai 3 sg. pres. med.), $\sqrt{g}i$ (rest, lie), etc.

The 2nd step of i is in Sk. $\bar{a}i$, e.g. $v\acute{a}i\varsigma$ -ya-s (man of third caste), $\sqrt{vi\varsigma}$ (go in; cf. $v\acute{i}\varsigma$ -as and $v\acute{e}\varsigma$ -a-s); $v\acute{a}id$ -ya-s (vēdic, learned), \sqrt{vid} (see, know; cf. $V\acute{e}d$ -a-s); $d\acute{a}iv$ -a-s (godly), whence $d\acute{a}iv$ -a-m (destiny), st. $d\bar{e}v$ - \acute{a} - (deus), \sqrt{div} (shine); $\varsigma\acute{a}iv$ -a-s (belonging to the god Çiva, Çiva-worshipper), fr. $\varsigma\acute{a}iv$ -s-s (the god Çiva); $v\~{a}i\check{s}nav\acute{a}$ -s (belonging to Vishnu, Vishnu-worshipper

- § 11. fr. Višnu-s (the god Vishnu); bef. vowels not ai but ay is found (§ 14), e.g. $n\dot{a}y-aka-s$ (masc. leader), $n\ddot{a}y-\dot{a}ya-ti$ (3 sg. prescausat. st.), \sqrt{ni} (lead), etc.
- $\S 12.$ 3. *u*-scale.

This scale, in all its parts, runs parallel to the *i*-scale, also the lengthening of u to \bar{u} occurs here, like i to \bar{z} above.

The lengthening of u to \bar{u} occurs here, just as in the i-scale i becomes $\bar{\imath}$, e.g. \acute{a} - $bh\bar{u}$ -t (\acute{e} - $\phi v(\tau)$, 3 sg. aor.), $bh\bar{u}$ - $t\acute{a}$ -s, $bh\bar{u}$ - $t\acute{a}$ -m (masc. ntr. past part. pass.), $\surd bhu$ ($bh\bar{u}$, be), cf. $\phi \breve{v}$ - $\tau \acute{o}$ -v, $f\breve{u}$ -turu-s; $s\bar{u}$ - $n\acute{u}$ -s (son), cf. Lith. $s\bar{u}n\grave{u}s$, Goth. sunus, $\surd su$ (bear, sow, sts. also given as $s\bar{u}$); $s\bar{u}$ - $n\acute{u}$ -n fr. *su-nu-ns (acc. pl.), Goth. sununs, st. $s\bar{u}n\acute{u}$ - (n. sg. $s\bar{u}$ - $n\acute{u}$ -s, cf. § 15, d). Like i, so u bef. r, and bef. r+conson. in noun-stt. is lengthened (§ 10), e.g. st. dhur-(fore-part of a coach-pole, e.g. acc. sg. $dh\acute{u}r$ -am), n. $dh\bar{u}r$ for *dhur-s, instr. pl. $dh\bar{u}r$ - $bh\acute{u}s$ for *dhur- $b\acute{u}s$, etc.

- § 13. 1. step ō, e.g. bódh-ati (3 sg. pres.), \sqrt{budh} (learn, know); pra-tōd-a-s (masc. goad), \sqrt{tud} (push); yu-yōģ-a (1, 3 sg. pf.), yōg-a-s (joining, speculation), \sqrt{yug} (iungere); bháv-ati (3 sg. pres.), á-bhav-ati (3 sg. pf.), bhav=bhō (v. § 14, d), \sqrt{bhu} (be); sōš-yáti (3 sg. fut.), \sqrt{su} (bring forth); crō-tra-m (ntr. ear), \sqrt{cru} (hear), sū-nō-s (g. sg.), st. sūnú- (n. sg. sū-nú-s, son), cf. Lith. sūnaús, Goth. sunaus, etc.
 - 2. step āu, e.g. bāuddhá-s (masc. Buddhist) fr. buddhá-s (past part. pass. n. propr. Buddha), \sqrt{budh} (know); á-tāut-sam for *a-tāud-sam (1 sg. aor.), \sqrt{tud} (push); yáug-ika-s (adj. fr. yóga-s

supr.), st. $y \dot{o} ga$ -, \sqrt{yug} (iungere); $bh \dot{a} v$ -a-s (being, nature), § 13. $bh \bar{a} v = bh \bar{a} u$ (v. § 14, d), $\sqrt{bh u}$ (be); $s \dot{a} u$ -t i (3 sg. pres.), su- $s \dot{a} \dot{v}$ -a (1, 3 sg. pf.) for *su- $s \dot{a} v$ -a (v. sub. consonn.), $s \dot{a} v = s \dot{a} u$ (v. § 14, d), \sqrt{su} (bring forth); \dot{a} - $c \dot{v} \dot{a} u$ - $c \dot{v} \dot{a} u$ (1 sg. aor. compos.), $\sqrt{c} v \dot{u}$ (hear), etc.

Note.—" $\bar{\imath}$ and \bar{u} are subject to step-formation only when they are at the end of roots," is the rule of Sk. grammar, i.e. they are in these cases lengthenings of real i, u; as medial root-sounds however, they are felt by the language-instinct to be unorigl., and are therefore not treated like genuine i, u. Real i and u appear besides only before root-terms. which consist of one consonant.

VOWEL SOUND-LAWS.

§ 14.

Note.—Only the most important Sk. sound-laws are here mentioned—those which operate within the word: the changes undergone by the term. of a word in consequence of its place in a sentence belong to the department of Sk. special-grammar, not to the Indo-Eur. (the so-called 'Comparative') Grammar.

1. Laws of the concurrence of vowels.

Fundamental law: Sk. permits hiatus in its earliest remains of language alone (in the Vēdic hymns), where we find even two like vowels in juxtaposition. In classical Sk. hiatus is avoided, a. by contraction, b. by loss of the former vowel, c. by separation, d. by change of vowel to corresponding spirant.

Contraction occurs when a happens to stand before another vowel, except in those cases where a is lost bef. the following vowel. Change to the consonn. takes place when i, u (including their furthest formations $\bar{e}[=ai]$, $\bar{o}[=au]$, $\bar{a}i$, $\bar{a}u$). This contrast between a and i, u, arises from the fact that a has no corresponding spirant, whereas i, u, have by their side y, v, which are only different from them through a slight distinction in pronunciation; the change from i, u, to y, v, is through intermediate iy, uv.

a. Exx. of contraction: pres. st. $bh\acute{a}ra+i$ of opt. mood = $bh\acute{a}r\bar{e}$, e.g. $bh\acute{a}r\bar{e}$ -t fr. *bhara-i-t (3 sg. opt. pres., \sqrt{bhar} , bear);

§ 14. noun st. $\dot{a}\dot{c}va+i$ of loc. case= $\dot{a}\dot{c}v\bar{e}$ (loc. sg. of n. sg. $\dot{a}\dot{c}va$ -s, equos), etc.

Note.—v. older peculiar contractions post. (§ 15, c).

- b. Loss of a occurs e.g. in cases like dhanin- (rich, n. sg. masc. dhani), fr. st. dhána- (neutr. n. sg. dhána-m, wealth)+sf. in; only bef. sf. ya is a regularly lost, e.g. st. dhána-ya- (adj. rich, n. sg. masc. dhán-ya-s), from same st. dhána-. Roots in a do permit this loss of a not unfrequently, e.g. da-d-más, da-dh-más (1 pl. pres. act.), fr. pres. stt. da-da-, da-dha- (1 sg. dá-dā-mi, dá-dhā-mi), \sqrt{da} (give), \sqrt{dha} (set); so also in pf. they lose their termn., and subsequently even assume an auxil. vowel i, as if they ended in a conson., $da-d-i-m\acute{a}$, $da-dh-i-m\acute{a}$ (1 pl. pf.), like $tu-tud-i-m\acute{a}$, \sqrt{tud} (push), so that it becomes probable that a was lost bef. i, and not ma, but ima, etc., was considered to be the termn.
- c. The splitting-up of i and u (and of their lengthenings $\bar{\imath}$, \bar{u} ,—perh. it is more correct to suppose no lengthening to take place before vowels) to iy, uv, is retained where these vowels are radical in monosyll. words, more rarely also in ordinary Sk. otherwise, i.e. when two consonn. stand before the vowel.

Exx.: bhiy-i (loc. sg.), cf. n. sg. $bh\bar{\imath}-s$ (fear), st. thus $bh\bar{\imath}-;$ $iy-\bar{a}y-a$ (3 sg. pf.), \sqrt{i} (go), fr. $*i-\bar{a}i-a$; $\bar{a}i$ is \sqrt{i} in 2nd step, i in fund. fm.

çu-çruv-ús (3 pl. pf.), $\sqrt{\text{gru}}$ (hear), f.f. ku-kru-anti; āp-nuv-ánti (3 pl. pres. fmd. by nu fr. $\sqrt{\text{ap}}$, work); bhruv-í (loc. sg.), n. sg. bhrū-s (\hat{c} - ϕ ρύς), st. therefore bhrū-.

Note.—y-anti (3 pl. ind. pres.), \sqrt{i} , contrary to rule where we should have expected *iy-anti*; *i* is here exceptionally treated according to the plan laid down below.

d. The change into corresponding semi-vowel is regular in ordinary Sk., that is, occurs exclusively in the case of i and u as 2nd part of diphthongs e (=ai), $\bar{a}i$, $\bar{o} (=au)$, $\bar{a}u$, e.g. $p\dot{a}kty-\bar{a}$ (instr. sg. of n. sg. $p\dot{a}kti-s$, coctio) for *pakti- \bar{a} , $ni-ny-\dot{e}$ (1, 3 sg. pf. med.), \sqrt{ni} ($n\bar{e}$, lead) for * $ni-ni-\bar{e}$.

náy-ati (3 sg. pres.), \sqrt{ni} (lead), here raised to 1st step $n\bar{e}$, § 14. i.e. nai.

ni- $n\ddot{a}y$ -a (1, 3 sg. pf. act.), \sqrt{ni} , $n\ddot{a}i$ =2nd step of ni.

cr-nv-ánti (3 pl. pres. act.), \sqrt{cru} (hear), pres. st. \sqrt{cr} -nu-(ef. § 12) for *cr-nu-anti, f.f. kru-nu-anti; ef. supr. apnuv-anti, with splitting of nu into nuv, whereas here two consonn. stand before u.

cráv-ana-m (the hearing, ear; n. sg. ntr.), \sqrt{cru} (hear), raised to cro = crau + csis + csi

Note 1.—The earlier lang. shows the splitting-up only in the case of i, u. The scale of variation is as follows: 1. i, u+vowel, e.g. $p\acute{a}kti-\bar{a}$; but there arises very easily, 2. iy, uv+vowel, e.g. $p\acute{a}ktiy-\bar{a}$; and finally the vowel element is lost entirely, 3. y, v+vowel, e.g. $p\acute{a}kty-\bar{a}$.

2. Vowel-change caused by the neighbouring § 15. consonn.

Note.—A single instance had to be mentioned as early as § 7, as $p\bar{u}rn\dot{a}s$ with \bar{u} on acct. of p; generally the weakenings of a bef. r are intrinsically caused by this conson.

a. y often lengthens preceding u, i, a (for splitting-up of y to iy, $\bar{\imath}y$, v. supr. § 14, 1, c.), e.g. $cr\bar{u}$ - $y\acute{a}$ - $t\bar{e}$ (3 sg. pres. pass.), $\sqrt{\dot{\gamma}ru}$ (hear); $\sqrt{\dot{g}}$ - $y\acute{a}$ - $t\bar{e}$ (3 sg. pres. pass.), $\sqrt{\dot{g}}$ (conquer, e.g. in $\sqrt{\dot{g}}$ -y- $t\acute{a}$ - $t\acute{a}$ -s, past part. pass., $\sqrt{\dot{g}}$ - $t\acute{a}$ - $t\acute$

Note.—Bef. y=i, $\bar{\imath}$ also may be explained as splitting-up of i to iy. Perh. fr. this source arise also the lengthenings of u to \bar{u} , and a to \bar{a} , bef. y. Cf. sq.

§ 15. b. iy sometimes occurs instead of y, and also iy with the favourite vowel-lengthening bef. y.

After a in certain cases iy (with a or \bar{a} therefore $\bar{e}y$) instead of y (with a or \bar{a} therefore ay, $\bar{a}y$), e.g. pres. st. in a + opt. element ya forms not -a-ya, but -a-iya, i.e. - $\bar{e}ya$, e.g. $b \, \dot{o} \, dh \, \bar{e}yam$ for * $b \, \bar{o} \, dh \, a$ -ya-m (1 sg. opt. pres.), pres. st. $b \, odh \, a$ -, $\sqrt{b} \, udh$ (learn, know); $d \, \dot{e} \, -ya$ -s (part. necessitatis, n. sg. masc.) for * $d \, \bar{a} \, -ya$ -s, st. $d \, \bar{a} \, -ya$ -, consisting of step-formed \sqrt{da} (give), and sf. ya; $g \, \bar{a} \, n \, g \, \bar{e} \, ya$ -s (found in or on the Ganges), fr. $g \, d \, n \, g \, \bar{a} \, ya \, \bar{e} \, x$ - Ganges), step-fmd. $g \, \bar{a} \, n \, ya \, \bar{e} \, x$ - for * $g \, \bar{a} \, n \, ya \, \bar{e} \, ya$ -s.

Also after consonn. occurs $\bar{\imath}y$ for y, thus in compar. st. fmd. with origl. sf. yans, e.g. st. $l\acute{a}gh\bar{\imath}y\~as$ - (n. sf. masc. $l\acute{a}gh\bar{\imath}y\=an$), fr. $lagh\acute{u}$ -s (light) = $\grave{\epsilon}$ - $\lambda a\chi\acute{\upsilon}$ -s, for *lagh- $y\~as$ -, cf. $\grave{\epsilon}$ - $\lambda \acute{a}\sigma\sigma\omega\nu$ for $*\lambda a\chi$ - $y\omega\nu$, and superl. $l\acute{a}gh$ - $i\breve{s}$ -tha-s, $\grave{\epsilon}$ - $\lambda \acute{a}\chi$ - $\iota\sigma$ - $\tau\sigma$ -s, where is- is a relic of -yas-, - $y\~as$ -. So moreover the sf. ya has also a fm. $\bar{\imath}ya$, e.g. st. karan- $\bar{\imath}ya$ - (faciendus) for *karan-ya-, st. $k\acute{a}ra$ - $n\acute{a}$, which loses its termn. bef. ya (§ 14, 1, b), etc.

Note.— $\bar{\imath}y = y$ is not developed in Indian until after the division of Aryan into Ind. and Eran.; the Zend, which stands so close to Old-Ind., still has $y = \text{Sk. } \bar{\imath}y$.

c. $y\bar{a}$ was sometimes compressed into $\bar{\imath}$. So esp. in fem. stt. in $\bar{\imath}$, which prob. can only be $=y\bar{a}$, e.g. $bh\dot{a}rant\bar{\imath}$ (the bearing one, f.) $=*bharant-y\bar{a}=\varphi\acute{e}\rho ov\sigma a=*\varphi\acute{e}\rho ov\tau-y\bar{a}$; $\acute{g}anitr\acute{\imath}=*ganitr-y\bar{a}$ fr. *gan-i-tar-ya (genetrix) $=\gamma ev\acute{e}\tau e\iota\rho a$, i.e. $*\gamma eve\tau e\rho-ya$, etc., ya- stt. fr. usual masc. stt., Sk. $bh\acute{a}rant$ -, $\acute{g}ani$ - $t\acute{a}r$ -, Gk. $\phi\acute{e}\rho ov\tau$ -, γeve - $\tau\acute{\eta}\rho$ -; $d\bar{e}v\acute{\imath}=*daivy\bar{a}$ (dea), cf. Lith. $deiv\acute{e}$, i.e. $*deivy\acute{a}$, f.f. daiv- $y\bar{a}$ (once 'goddess,' now='ghost'), later fmn. fr. st. $d\bar{e}v\acute{a}$ -, Lith. $d\acute{e}va$, f.f. daiva- (deus); $\nabla \bar{e}d$. $\acute{a}v\bar{\imath}$ (instr. sg. for Sk. $\acute{a}vy$ - \bar{a} , both fr. $\acute{a}vi\bar{a}$ ($\acute{a}vi$ -s, ouis, \bar{a} sf. of instr. sg.), etc.: $\bar{\imath}$ is clearly a weaker vowel-fm. for $y\bar{a}$ in opt., e.g. 3 sg. act. bibhr- $y\acute{a}$ -t, but 3 sg. med. bibhr- $\bar{\imath}$ -ta, $\sqrt{b}har$ (bear, pres. st. bibhar-), etc.

Sometimes $\bar{\imath}$ is a product of a similar earlier contraction of *i-a* or ya after loss of conson. betw. i and a, as in $s\bar{\imath}d-\acute{a}ti$ (3 sg. pres.), fr. *si-adati for *si-sad-ati, \checkmark sad (sit, pf. sa-s $\acute{a}d$ -a, aor.

ά-sad-at), like ἵζω fr. *iëζω=*si-sed-yō, f.f. si-sad-yami, Lat. sīd-o § 15. fr. *sisdo for si-sed-o, f.f. *s̄i-sad-ami (with not unfreq. pres. redupln.), also the $\bar{\imath}r$ now used as a root, e.g. $\bar{\imath}r$ -tē (3 pres. med., rises, causat. $\bar{\imath}r$ -áyati, he arouses), is recognized as a product of pres. redupln.; $\bar{\imath}r$ =*i-ar, *iyar, \sqrt{ar} (go), etc.

d. Compensatory lengthening. Esp. in declens.-fms. (n. sg., acc. pl.) is found lengthening of the foregoing vowel after loss of conson. Exx.:

N. sg. $r\dot{a}\dot{g}a$ for * $ra\dot{g}an$ -s, st. $ra\dot{g}an$ - (masc. rex) + nom. sf. s, cf. $\pi o\iota \mu \dot{\eta} \nu$ for * $\pi o\iota \mu \epsilon \nu$ -s; dhan \dot{i} for * $dhan\dot{i}n$ -s, st. dhan $\dot{i}n$ - (rich); $m\bar{a}t\dot{a}$ for * $m\bar{a}tar$ -s, st. $m\bar{a}tar$ - (mater), cf. $\mu \dot{\eta} \tau \eta \rho$ for * $\mu \eta \tau \epsilon \rho$ -s; d $\dot{u}r$ -man $\bar{a}s$ for *dur-manas-s (masc. fem. evil-minded, compounded of dus, evil, m $\dot{a}nas$ ntr. mens), cf. $\delta \nu \sigma \mu \epsilon \nu \dot{\eta}$ s for * $\delta \nu \sigma$ - $\mu \epsilon \nu \epsilon \sigma$ -s; agnim $\dot{a}n$ for *agnimant-s (fiery, st. agni-, ignis + sf. -mant). Notice $bh\dot{a}ran$ without compens. lengthening for *bharant-s (n. sg. part. pres. act., whilst the corresponding Gk. $\phi \dot{\epsilon} \rho \omega \nu$ for * $\phi \epsilon \rho \rho \nu \tau$ s has the lengthening).

Acc. pl. áçrān for *açran-s, n. sg. áçra-s (equos); pátīn for *patin-s, n. sg. patis (lord); sūnūn for *sūnun-s, n. sg. sūnū-s (son); mátīs for *mati-ns, n. sg. mátī-s (fem. thought): dhēnūs for *dhēnun-s, n. sg. dhēnū-s (milch cow).

Bef. sonant consonn. we ought prob. to consider \bar{o} to be a compens. lengthening=as, with dulling of the vowel, e.g. $m\dot{a}n\bar{o}bhis$, instr. pl. for *manas-bhis, fr. $m\dot{a}nas$ - (neutr. mens, $\mu\dot{e}\nu o\varsigma$) and bhis (sf. of instr. pl. consisting of bhi+ pl. sf. s), etc. This change of as to \bar{o} often takes place in case of final as.

Note.—In the case of compens, lengthening in Sk, and in the other languages, we might make a more accurate distinction as follows: 1. - conson.= (cf. O.-Bulg instr. sg. -mi=origl. bhi, bes. instr. pl. -mi, i.e. -mi=origl. -bhis), in terminations; medially this case is not found: 2. - conson. 1 + conson. 2= (e.g. mata for *matars) in termn.: 3. - conson. 1 + conson. 2= - conson. 2, final and medial (e.g. matis for *matin-s; Gk. $\epsilon l\mu l$ for * $\epsilon \sigma \mu \iota$; a subdivn. forms here - cons. 1 + cons. 2 + cons. 3= - + cons. 3 (e.g. $l\sigma \tau as$ for * $l\sigma \tau as$: 4. -

- § 15. conson. 1+cons. 2= +cons. 1 (e.g. μήτηρ for *μητερς), or +cons. 1+cons. 2+cons. 3= +cons. 1 (e.g. φέρων for *φεροντς, finally and medially, the latter, e.g. Gk. ἔφηνα for *έφανσα). The physiological explan. of this sound-process is difficult, esp. in case No. 4.
 - e. Dulling of \bar{a} to \bar{e} and $\bar{a}u$ bef. lost conson. and in fine. For \bar{a} there occurs a dulled fm. in \bar{e} , in certain cases in the middle of a word, when \bar{a} has been produced through compens. lengthening (§ 15, d), in the case of unusual and late consonantal loss: in termn. it occurs, but is likewise confined to certain cases; also we find \bar{e} for \bar{a} , like $\bar{a}u$ for \bar{a} , the latter of which is retained in the old lang. Exx.:

 \bar{e} for \bar{a} when consonn. have been lost; thus in imperat. pres. $\bar{e}dhi$ for $*\bar{a}$ -dhi, *as-dhi (\checkmark and pres. st. as-, esse, dhi termn. of 2 sg. imper.); $dh\bar{e}hi$ for $*dh\bar{a}hi$, with asp. (v. § 59) for $\nabla\bar{e}dic$ daddhi for *dadh-dhi (pres. st. dadh, $\checkmark dha$, set); $d\bar{e}hi$ for $*d\bar{a}hi$, fr. *dadhi for daddhi (pres. st. dad, $\checkmark da$, dare); in pf. fm. as Sk. $p\bar{e}t$ -i- $m\acute{a}$ for $*p\bar{a}t$ -i-ma, $\nabla\bar{e}d$. papt-i- $m\acute{a}$ fr. *pa-pat-ma (1 pl. act.; pf. st. papat-, $\checkmark pat$, fly, fall); $t\bar{e}n$ -i- $r\acute{e}$ for $*t\bar{a}n$ -i- $r\bar{e}$ fr. older ta-tn-i- $r\bar{e}$ (3 pl. med.; pf. st. tatan-, $\checkmark tan$, stretch), etc.; finally in voc. of fem. a- st., e.g. \acute{a} cv \bar{e} (but earlier still \acute{a} cv \acute{a}), voc. of acv \bar{e} (equa). \bar{e} u for earlier \bar{e} (cf. \bar{e} for as in termn. bef. sonants, § 15, d) occurs in n. acc. dual, e.g. \acute{a} cv \bar{e} u, earlier \acute{a} cv \bar{e} u. \acute{a} cvas, equos); further in 1, 3 sg. pf. act. of roots in a, e.g. $dad\acute{a}$ u, archaic $dad\acute{a}$, $\checkmark da$ (dare).

f. An auxil. vowel i, $\bar{\imath}$, occurs betw. stem-termns. and termns. which begin with a conson. in word-fmn., esp. in conjugation fms., in which origly. and partly still in the earlier lang., the termn. was added immediately to the stem-termn., e.g. pres. fm. of single vbs., as $sv\acute{a}p-i-mi$, $sv\acute{a}p-i-\check{s}i$, $sv\acute{a}p-i-ti$, $svap-i-m\acute{a}s$ (1, 2, 3 sg., 1 pl. pres.), etc., for *svap-mi, etc., \sqrt{svap} (sleep); in pf. this occurs regularly in case of certain persons, e.g. 1 pl. $tutud-i-m\acute{a}$, \sqrt{tud} (tundere), etc. Here we often see even now the older fms. without inserted i, partly even in ordinary Sk., as e.g. $kak\acute{a}r-tha$ (2 sg. pf.), \sqrt{kar} (facere), partly in the earlier lang.

§ 16.

of the Vēdas, in which a fm. $tutudm\acute{a}$, etc., may be found. In § 15. fut. e.g. $gam-i-\check{s}y\acute{a}mi$ (1 sg. fut.), \sqrt{gam} (ire); in part. pres. pass., e.g. $vid-i-t\acute{a}-s$, \sqrt{vid} (see, know), and many similar fmns., this insertion of i occurs in certain roots.

 $\bar{\imath}$ occurs as auxil. vowel in aor.-fms., e.g. 2 sg. \acute{a} - $n\bar{a}i$ - \check{s} - $\bar{\imath}$ -s, \sqrt{n} ($n\bar{\imath}$, lead), bes. 1 pl. $\acute{a}n\bar{a}i$ - \check{s} -ma; in pres. fms. as 1 sg. $\acute{b}r\acute{a}v$ - $\bar{\imath}$ -mi, 3 sg. $\acute{b}r\acute{a}v$ - $\bar{\imath}$ -i, bes. 1 pl. $\acute{b}r\bar{u}$ - $m\acute{a}s$, $\sqrt{b}ru$ ($\acute{b}r\bar{u}$, speak), and in impf. fms., as \acute{a} - $\acute{b}rav$ - $\bar{\imath}$ -s, \acute{a} - $\acute{b}rav$ - $\bar{\imath}$ -t (2, 3 sg.) (id.); $\acute{a}s$ - $\bar{\imath}$ -s, $\acute{a}s$ - $\bar{\imath}$ -t (2, 3 sg.), $\sqrt{a}s$ (esse), etc.; $g\acute{h}r$ - $\bar{\imath}$ - $t\acute{a}$ -s past part. pass., $\sqrt{g}rah$ (grasp), has likewise this $\bar{\imath}$, which is therefore used just like i, only not so often.

The Ved. $\bar{a}s$ for * $\bar{a}s$ -t (acc. to a sound-law of Old-Ind., which must be discussed under 'Consonants'), instead of later $\dot{a}s$ - $\bar{\imath}$ -t, favours the view that $\bar{\imath}$ is an auxil. vowel inserted at a later time.

Note.—Since beside $sv\acute{a}p$ -i-mi for *svapmi, etc., we see $sv\acute{a}p \bar{a}mi$, etc., we must simply suppose that here, as often elsewhere, beside the pres. st. svap-, there was a pres. st. in a, svapa-.

GREEK.
SUMMARY OF SOUNDS.

CONSONANTS.									VOWELS.		
MO	MENT.	ARY SOU	NDS.	PROLONGED SOUNDS.							
	UNASPIRATED ASPIRATED mute sonant 1 mute		spirants. mute sonant1		1	r-& l-sounds. sonant 1					
Gutt.	κ	γ	x	¢		γ			$a \bar{a}$	$\left.\right\rangle \in \eta^{-}$	
Pal.									ι ፣	(6 1/	
Ling.							ρ	λ)	>ο ω
Dent.	τ	δ	θ	σ		ν				$\begin{array}{c} v \bar{v} \end{array}$	
Lab.	π	β	φ		(<i>F</i>)	μ			(00)_	<u> </u>	

1 Or medial.

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§ 16. In this table only the indivisible sounds are mentioned.

 ξ is a consonantal diphthong, namely d with the sonant dental spirant (e.g. Sclavonian z). ψ , ξ , are only characters for two sounds π_{S} , κ_{S} . The vowel-diphthongs are $\alpha\iota$, $\epsilon\iota$, $\iota\iota$; $\alpha\upsilon$, $\epsilon\upsilon$, $\iota\upsilon$ (older pronunciation); $\iota\iota$; also α , η , ω (older pronunciation, by which the ι was still heard); $\bar{\alpha}\nu$ (perhaps in the word $\gamma\rho\bar{\alpha}\hat{\nu}s$ [$\gamma\rho\eta\hat{\nu}s$], perhaps pronounced distinctly from $\alpha\nu$ with short α), $\eta\nu$, $\omega\nu$.

Note 1.—v at an earlier period of the language was equivalent to u, but became pronounced like y, \ddot{u} , as early as classical times; ov in the earlier language was the genuine diphthong ou, but even in the classical period it had become equivalent to \ddot{u} , as indeed it did in other languages, e.g. French, the older ou became \ddot{u} , whilst the spelling retains the earlier sound-grade.

To pronounce Old-Greek after the fashion of modern Greek is a mistake, which arises from utter ignorance of the laws of

development and phonology of a language.

We should be careful to distinguish ai from ϵi in pronunciation, because they are distinct sounds: they are pronounced as they are written, i.e. ai like German ai or ei, but ϵi like e+i tacked on, a diphthong, which is found dialectically in German, and characterized in other languages by ey (ej) (cf. Curt. Erl. § 8 sqq.).

Note 2.—Like most other written languages, the Greek does not characterize its long vowels throughout; in earlier Greek, however, they were not indicated at all: α serves as α and \bar{a} , ι for i and $\bar{\imath}$, ν for \bar{u} and \bar{u} , in the earlier writing ϵ for ϵ and $\bar{\epsilon}$ (η); o for o and \bar{o} (ω). These incomplete indications of sounds have nothing to do with the language itself, $\tau \epsilon s$, e.g., must be read $\tau \hat{\eta} s$, $\tau \epsilon \iota = \tau \eta \iota$, i.e. $\tau \hat{\eta}$, $\tau \iota \iota = \tau \omega \iota$, i.e. $\tau \hat{\varphi}$, etc.; in all cases the long vowels are derived from the original language. Cf. 'Declensions.'

The system of Greek writing belongs to Greek special-grammar, as an appendix to the phonology.

THE GREEK VOWEL-SYSTEM.

The most important deviation from the original language lies in the colouring of a into e and o, which takes place alike in the case of a and \bar{a} by the side of the original vowel pre-

served: the archaic dialects (Dôric) have remained most faithful § 17. to the older order of sounds: o has a double duty; it is not only 1. the representative of the original a, but also 2. (opposed to $\epsilon = a$) the representative of the original \bar{a} .

Through the differentiation of \bar{a} into o, \bar{a} , η , ω , it became possible to separate ω as the second step from the first o, α , η .

The weakening of a into ι and v, as well as loss of a, occurs comparatively seldom.

This same colouring of the a-sound into e and o occurs when it is combined with i and u in a diphthong; here too e (=a) is the first, o (= \bar{a}) the second step, which however is replaced in the u-scale almost always by the first step ($e\iota$, $e\upsilon$ =original ai, au; $o\iota$, $o\upsilon$ =original $\bar{a}i$, $\bar{a}u$). It is only wherever the language has lost the living variability of the vowels according to their scales, $a\iota$ and $a\upsilon$ appear as steps raised from ι and υ .

A large number of vowel-sounds, especially diphthongs and long vowels, arise in Greek through the elision, permutation, and change of position of the original spirants y, v, s, which were entirely, or in certain combinations, unbearable to Greek pronunciation. The vowel-sounds so formed are consequently entirely unoriginal, being products of the peculiar sound-laws of the Greek language, and foreign to the original state of the language.

The Greek vowel-system, in many parts differing from the original one, reminds us in several respects of the Zend; whilst we find on the other hand the greatest conformity with that of the Latin language.

The vowel-scales of the Greek language are then as follows:

	We	akening.	Fundamental-vowel.	1st Step.	2nd Step.	
a-scale	loss	ι, υ	ϵ , o, a	o, \bar{a}, η	ω	
<i>i</i> -scale			ı	ει (αι)	οι	
u-scale			\boldsymbol{v}	ευ (αυ)	ov $(\bar{a}v)$	

Note.—More than one sound accordingly occurs here in different functions, as is the case with i and u in Sanskrit, and

§ 17. partly also in Zend. In the Greek, however, we meet with the ambiguity of the sounds for the first time to a greater extent; we may here therefore speak of it briefly. Besides the permutations shown above, $\iota = \text{original } i \text{ and } a \text{ } v = \text{original } u \text{ and } a;$ o=original a and \bar{a} : that is, the diphthongs are ambiguous because they stand, sometimes for scale-sounds, sometimes for results of contraction, sometimes for protracted vowels. in $\epsilon l \mu \iota$ (ϵo , ibo), fundamental-form a i - m i, originally distinct from εἰμί (sum), from *ἐσμι, fund.-form as-mi; εἰ in εἶπον (dixi), fr. * $\epsilon \epsilon \pi \sigma \nu$, * $F \epsilon F \epsilon \pi \sigma \nu$, $\sqrt{F \epsilon \pi}$; ϵi in $\epsilon i \eta \nu$ (opt. pres.) for * $\epsilon \sigma \gamma \eta \nu$, f.f. as-yā-m; κτείνω (kill) for *κτενγω; ου in σπουδή (haste; raised to ϵv in $\sigma \pi \epsilon \dot{v} \delta \omega$, $V \sigma \pi v \delta$) is altogether different, as σv in $\sigma v \dot{v} \delta v$ (foot) for * $\pi o \delta$ -s, f.f. pad-s; ov in $\tau o \dot{v}$ s for $\tau o v$ s (acc. pl. of τo -), f.f. tams; ou in véou, fr. *véoo, for véo10, *veFooyo, f.f. navasya (gen. sing. masc. and n. fr. νεο-, young); ου in γουνός for *γον Foς (gen. sing. fr. γόνυ, knee):—similarly in the case of οι, λοιπ-ός (remaining), $\sqrt{\lambda \iota \pi}$, but μοῖρα (lot, fate) for *μορ-ya, $\sqrt{\mu \epsilon \rho}$ (divide); οἶς, fr. ὄις (older form ὄΓις, Lat. ouis); $\alpha \iota$ in $\alpha \iota \theta \omega$ (burn), $\sqrt{i\theta}$, but $\mu \in \lambda a \nu a$ (nom. sing. fem. st. $\mu \in \lambda a \nu$ -, black) for μέλαν ya, etc.

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EXAMPLES.

1. α -scale.

Weakening. Loss. e.g. γl - $\gamma v o$ - $\mu a \iota$ (become) for $^*\gamma \iota$ - $\gamma \acute{e}v$ - $\sigma \iota a \iota$, $\sqrt{\gamma e \nu}$, original gan; πl - $\pi \tau$ - ω for $^*\pi \iota$ - $\pi e \tau$ - ω , $\sqrt{\pi e \tau}$, original pat (fall); \acute{e} - $\sigma \chi$ -ov (1 sing. aor.), fund.-form a-sagh-a m, $\sqrt{\sigma e \chi}$, original \sqrt{sagh} ; \acute{e} - $\sigma \pi$ - $\acute{o}\mu \eta \nu$ (1 sing. aor. $\acute{e}\pi$ - $\sigma \mu a \iota$), $\sqrt{\sigma e \pi}$ (follow), original \sqrt{sak} , etc.

There takes place not unfrequently a complete loss of an original a in the elements of stem-formation, e.g. $\pi a - \tau \rho - \delta s$, $\pi a - \tau \rho - \ell$, from stem $\pi a \tau \epsilon \rho - \ell$ (father), original $pa - tar - \ell$, thus stand for $\pi a \tau \epsilon \rho - \delta s$, $\pi a \tau \epsilon \rho - \ell$ (Homêrie), f.f. patar - as, patar - i, etc.

Note.—Loss of initial a in Greek is not common, cf. $\epsilon\sigma$ - $\mu\epsilon\nu$ (we are), f.f. as-nasi, Sansk. s-mas, and Lat. s-umus; $\epsilon i \eta \nu = *\epsilon\sigma y \eta \nu$, f.f. as-y an, Sansk. s-y an, Lat. s-i e m; $\epsilon \hat{\nu}$ ($\epsilon \hat{\nu}$) for $*\epsilon\sigma \hat{\nu}$, f.f. asu, Sansk. su (well).

The weakening of original a to ι (cf. Curt. Gk. Et., p. 641 sqq.) is not frequent or regular in roots, and occurs most often before two consonn., e.g. τσ-θι, f.f. as-dhi (2 sing. imper.),

 $\sqrt{\epsilon}$ s, origl. and Sansk. as (to be); $\pi i\tau - \nu \eta \mu \iota$ beside $\pi \epsilon \tau - \dot{\alpha} \nu \nu \nu \mu \iota$ § 18. (spread out), cf. pateo; $\pi i\tau - \nu \dot{\epsilon} \omega$ (fall), $\sqrt{\pi} \epsilon \tau$, Sk. pat; $\kappa \iota \rho - \nu \eta \mu \iota$ beside $\kappa \epsilon \rho - \dot{\alpha} \omega$, $\kappa \epsilon \rho - \dot{\alpha} \nu \nu \nu \mu \iota$ (mix); $\tau l \kappa - \tau \omega$ (bring forth), $\sqrt{\tau} \alpha \kappa$, origl. $\sqrt{t} ak$, cf. $\dot{\epsilon} - \tau \epsilon \kappa - o\nu$, $\tau \dot{\epsilon} - \tau o\kappa - a$; $\ddot{\nu} \pi \pi \sigma s$ for * $\ddot{\nu} \kappa - F \sigma s$, Sk. $\dot{\alpha} c - \nu a s$, Lat. eq-uos, f.f. $ak - \nu a s$, $\sqrt{a} k$ (run). The passing of original a into i is through intervening e, to which fact the examples cited bear witness.

This weakening of the fundamental a into ι occurs regularly in the reduplicated form of the present, e.g. $\tau \iota \cdot \theta \eta - \mu \iota$, Sk. and origh. $d\hat{a} \cdot dh\hat{a} - mi$, $\sqrt{\theta \epsilon}$, Sk. and origh. \sqrt{dha} (place); $\delta \iota \cdot \delta \omega - \mu \iota$, Sk. and origh. $d\hat{a} \cdot d\hat{a} - mi$, $\sqrt{\delta o}$, Sk. and origh. da (give); $\gamma \iota \cdot \gamma \nu \cdot o\mu a\iota$, $\sqrt{\gamma \epsilon \nu}$, origh. gan (bring forth); $\pi \iota \cdot \pi \tau - \omega$, $\sqrt{\pi \epsilon \tau}$, origh. pat (fall). This i (weakened from a) occurs lengthened to i, e.g. in $\pi \iota \cdot \nu \omega$ (drink), $\sqrt{\pi o}$ ($\pi \circ - \sigma \iota s$, $\pi \circ - \tau \eta \rho \iota o\nu$, $\pi \cdot \epsilon - \pi \omega - \kappa a$), origh. pat; $\pi a \rho \theta \epsilon \nu \cdot o\pi - \iota \tau - \eta s$ (looker-at-maidens), cf. $\delta \pi - \omega \pi - \eta$ (sight), $\sqrt{\delta \pi}$, origh. ak (see); $\delta \sigma - \mu \iota \nu \eta$, $\delta \sigma - \mu \iota \nu \iota$ (loc. sing. moil), f.f. yudh-manā, yudh-mani, the latter to the st. yudh-man-, \sqrt{yudh} (join battle), suff. man.

Dialectically (in Dôric, Aiolic) this weakening of origl. a to i is more common; e.g. Dôr. $i\sigma$ - τia , Iôn. $i\sigma$ - $\tau i\eta$, for $\epsilon \sigma$ - τia (hearth), origl. \sqrt{vas} ; $i\nu$ Arkad. and Kuprian for $\epsilon \nu$ (in), related to the pronoml. stem an; Boiôtian $i\omega \nu =$ Iôn. $\epsilon \omega \nu$ for * $\epsilon \sigma$ - $\omega \nu$ (n. sing. masc. part. pres. act.), $\sqrt{\epsilon} \sigma$ - (be), etc. Through the dulling of a to o, and further of o to o, a change of origl. o to o to o takes place.

This weakening of a to v (cf. G. Curt., p. 644 sqq.) occurs merely unconnectedly, in most cases through the influence of a nasal or r, l; and herein we must not forget that v represents an older u, so that in Greek we have the same weakening from a to u as in Lat. and German, etc., e.g. $vv\kappa\tau$ - os (gen. sing.), stem $vv\kappa\tau$ - (night), (Sk. adv. $n\acute{a}kt$ -am=noctu), Lat. stem. noct-: the root-vowel thus is a, and the root clearly \sqrt{nak} (necare, nocere); in $\acute{o}vv\xi$ (stem $\acute{o}vv\chi$ -, nail), root $vv\chi$, cf. Goth. nag-ls, Sk. nakh- $\acute{a}s$, etc., the origh. vowel is no doubt a; $\gamma vv\acute{\eta}$ (woman),

§ 18. √γαν (bring forth), cf. Sk. ģán-a-s (mensch), ģánī (wife), Gothic kven-s (wife, spouse); κύκλος (ring), cf. Sk. k'akrá-m; μύλ-ος, μύλ-η (mola), √mal fr. mar, cf. mola, molere, Lith. malù, Gothic malan; ἀν-ώνυμος (nameless) beside ὄνομα (name), f.f. gnāman, etc.

Dialectically this change is more frequently observed, esp. in Aiolic, e.g. ἄνυμα=ἄνομα; ὕμοιος=ὅμοιος, f.f. samaias, from stem sam=Gk. ὁμο (ὁμός, like), the origin of which is found in the pronoml. origl. \sqrt{sa} =Gk. ὁ; Aiolic locative ἄλλυι, τυῖδε, for ἄλλοι (ἀλλο-, other), τοῖδε (το- demonstr. pronoml. st.); Boiôtian τύ for *τυι=τοι (n. pl. masc. same st.), τῦς ἄλλυς= *τυις *ἀλλυις=τοῖς ἄλλοις (dat. loc. pl.), by contraction of $v\iota$ to v.

Note.—I hold it inadmissible to separate from the rest those cases in which original ka, ga, become $\kappa \nu$, $\gamma \nu$, and to explain them collectively from kva, gva, with loss of a; neither will a fm. * $\kappa Fa\kappa \lambda o_{S}$ seem to me to be Gk., and yet we must suppose some such form. No one, so far as I know, has had recourse to a fm. * $\nu Fa\xi$, * $\partial \nu Fa\xi$, * $\mu Fa\lambda \eta$, in order to explain the ν in these words. Here ν must have arisen from a without passing through νa , and the same process must have taken place after gutturals.

§ 19. Root-vowel a in the original language.

As a rule, ϵ is the representative of oright α in roots; whilst α generally takes its place in the stem-formative and word-formative particles, α is found in roots; in word-formative additions it is mostly dependent on a nasal now lost, but once in existence.

ε=a. ἔδ-ω, Sk. ád-mi (eat), $\sqrt{\epsilon}$ δ, origl. ad (edo); $\sqrt{\epsilon}$ δ in εζ-ομαι=*σεδ-yομαι (sed-eo), εδ-ος (sed-es), origl. sad (sit); $\sqrt{\gamma}$ εν in γ έν-ος (gen-us), origl. gan (gi-gn-ere) of gan-as; ϵ άσ- τ l, Sk. and origl. ás-ti ($\sqrt{\epsilon}$ σ, origl. as, esse); ϕ έρω, Sk. and origl. bhár-āmi, εφερ-ον, Sk. and origl. ά-bhar-am, $\sqrt{\phi}$ ερ, origl. bhar (ferre), etc. So also ϵ is common in elements of relation, e.g. st. π α- τ έρ- (n. sing. π ατήρ, father), origl. pα-tar-; st. μ $\hat{\eta}$ -τερ- (n. sing. μ ήτηρ, mater), origl. mātar-; st. μ έν-εσ- (n. sing.

μένος, might), Sk. and origl. mán-as; φέρ-ετε, Sk. bhár-atha; § 19. origl. evidently bhar-a-tasi (2 pl. pres. act.), etc.

o=a. $\pi o \delta$ -όs, Sk. and origl. pad-ás (g. sing.), st. and \sqrt{pad} (foot, go), where of course, in accordance with the sensibility of the Greek, the o may also be considered as a raised step from ϵ in $\pi \epsilon \delta$; δ , $\tau \delta$, origl. and Sk. sa, ta-t, root and st. sa, ta (pron. dem.); $\pi \delta$ - σt - ς (lord)=origl. and Sk. $p\acute{a}$ -ti-s (lord); $\mu \acute{e}\nu$ -os (n. acc.), $\mu \acute{e}\nu$ -ov (gen. sing.) for * $\mu \acute{e}\nu e\sigma$ -os, Sk. and origl. $m\acute{a}n$ -as, $m\acute{a}n$ -as-as; similarly in a-stems, a changes to o, as $\nu \acute{e}Fo$ - ς (n. sing. masc.), $\nu \acute{e}Fo$ - ν (acc. sing.) = Lat. nouo-s, nouo-m, Sk. and origl. $n\acute{a}va$ -s, $n\acute{a}va$ -s, $n\acute{a}va$ -m, etc.

Dialectically o takes the place of a. Aiolie βροχέως for βραχέως (adv.), from st. βραχύ- (breuis=breguis, short); Arkadian ἐκοτόν for ἐκατόν (100), f.f. of -κατον is kata-m or kanta-m, cf. Sk. çatá-m; Kuprian κόρζα=καρδία (heart), cf. Lat. cord-, f.f. of this stem is kard-; st. τεκταν- in τέκταινα, i.e. *τεκτανγα (fem.), τεκταίν-ομαι (build), i.e. *τεκτανγομαι stands by the form τέκτον- (n. sing. τέκτων, builder), f.f. taktan-; the older a is preserved in the Dôric Γίκατι for the newer Attic εἴκοσι (twenty), f.f. of the second part of the word is (da)kati; in δια-κάτιοι for διακόσιοι (200), -κατιοι is derived from an origh. stem kata- or kanta- (100).

a=a. ἀκ-ωκ-ή (point), st. ἄκ-οντ- (n. ἄκων, dart), origl. √ἀκ (Lat. ac-, ac-utus); ἄγ-ω (lead)=Lat. ago, Sk. άģ-āmi, origl. \sqrt{ag} ; ἄχος (grief), ἄχ-νυμαι (am grieved), origl. \sqrt{agh} ; ἐ-λαχ-ύς (little), Sk. lagh-ús (old ragh-ú-s) (light); $\pi\lambda\alpha\tau$ ύ-ς (broad, wide), Sk. prthû-ŝ, origl. pratu-s; $\lambda\alpha$ - μ - β -άνω (take), ἔ-λα β -ον, Sk. ά-labh-am, $\sqrt{\lambda}\alpha\beta$, Sk. labh- (get); δάκ-νω (bite), ἔ-δακ-ον, cf. Sk. dάς-āmi, f.f. $\sqrt{d}\alpha k$; ἔ-λακ-ον (I spoke), cf. Lat. log-uor, Sk. lάp-āmi (cry out), $\sqrt{\lambda}\alpha\kappa$, origl. rak; st. $\pi\alpha$ - τ έρ-(father)=Lat. pa-ter-, origl. pa-tar-, \sqrt{p} a (protect).

a stands beside ϵ , e.g. $\tilde{\epsilon}$ - $\tau a\mu$ -ov beside $\tilde{\epsilon}$ - $\tau \epsilon \mu$ -ov ($\tau \epsilon \mu$ -v ω , cut), in $\tilde{\epsilon}$ - $\tau \rho a \phi$ -ov, $\tilde{\epsilon}$ - $\tau \rho a \pi$ -ov, $\tilde{\epsilon}$ - $\kappa \tau a \nu$ -ov beside $\tau \rho \epsilon \phi$ - ω (cherish), $\tau \rho \epsilon \pi$ - ω (turn), $\kappa \tau \epsilon \ell \nu$ - ω (kill) (=* $\kappa \tau \epsilon \nu$ -y ω). We cannot trace herein a

3 19. step from ε to a, but only a vowel-colouring, originally merely dialectic, which indeed was used in Greek for the purpose of expressing the relation of the aorist. As ε-ταμ-ον is to ε-τεμ-ον, so are the present forms τέμνω, τρέφω, τρέπω to the Dôric τάμνω, τράφω, τράπω, which we have to consider as the presents corresponding to the aorists ἔταμον, ἔτραφον, ἔτραπον; κρείσσων (better) (i.e. *κρετ-γων) beside κράτ-ιστος (best). Cf. Dôric ā=Iôn. Attic η.

a=a+nasal. πόδα (acc. sing.), Sk. and origl. p'ad-am (pedem), πόδ-as, Sk. p'ad-as, origl. padam-s; φ'eρον-τα, Sk. and origl. bh'aran-tam (feren-tem), φ'eροντ-as, Sk. bh'arant-as, origl. bharant-ams (acc. pl. ferent-es); 'eπτ'a, Sk. and origl. sapt'an (septem); δ'eκa, Sk. d'a'egan, origl. dakan (decem); -σa (1 sing. aor. in comp.) =Sk. and origl. -sa-m, cf. $\'e-δe\iota ξα$ (= $\'e-δe\iota κ-σa$) and Sk. $\'a-dik-\checksa-m$, \sqrt{di} ç, origl. dik (show).

§ 20. Step-formation in the α -scale. Rule for the first step is: radical ϵ is raised to o, α to $\bar{\alpha}$ (i.e. η). There are, however, exceptions to this rule.

1. ϵ :0. $\phi \circ \rho$ -0-5 (tax), $\phi \circ \rho \in \omega$ (bear (durative), wear)=Sk. and f.f. bhar-a-s (burden), bhar-ayami (causat.) beside $\phi\epsilon\rho-\omega$, Sk. and f.f. bhár-āmi (fero); Fόχ-ο-ς (waggon), Sk. vah-α-s, f.f. $v\bar{a}gh$ -a-s (waggon), $\sqrt{F}e\chi$, Sk. vah, origl. vagh (vehere), which, however, as a verb becomes intermixed with $\sqrt{\sigma \epsilon \chi}$, Sk. sah (have, hold); $\mu \acute{\epsilon}$ - $\mu o \nu$ - α (strive), f.f. ma- $m\bar{a}n$ -a, beside $\mu \acute{e}\nu$ -os (might), Sk. and f.f. mán-as, $\sqrt{\mu e\nu}$, origl. \sqrt{man} (think); $\gamma o \nu - \dot{\eta}$ (birth), $\gamma \dot{o} \nu - o - \varsigma$ (thing born, bairn), $\gamma \dot{e} - \gamma o \nu - \alpha$, f.f. ga-gān-a, Sk. ģaģāna, beside έ-γεν-όμην, γέν-ος (genus), Sk. ģán-as, f.f. gan-as, √yev, origh. √gan (gi-gn-ere); τόκος (thing born, bairn), τοκ-εύ-ς (parens), beside τεκ-έσθαι, τίκ-τω, √τεκ (produce); $\tau \acute{e}$ - $\tau \rho \circ \phi$ -a beside $\tau \rho \acute{e} \phi$ - ω , \acute{e} - $\tau \rho \acute{a} \phi$ - $\eta \nu$, $\sqrt{\tau \rho \circ \phi}$ (nourish); $\tilde{\epsilon}$ -κτον-α beside κτείν-ω (i.e. *κτεν-yω), $\tilde{\epsilon}$ -κταν-ον, $\sqrt{\kappa}$ τεν (kill); $\epsilon \tilde{\ell}$ - $\lambda o \chi$ -a, $\lambda \acute{o} \gamma$ - $o \varsigma$, beside $\lambda \acute{e} \gamma \omega$, $\sqrt{\lambda \epsilon \gamma}$ (legere); \check{e} - $\phi \theta o \rho$ -a, $\phi \theta o \rho$ -a, beside $\phi\theta\epsilon\ell\rho\omega$, i.e. * $\phi\theta\epsilon\rho$ - $y\omega$, $\sqrt{\phi\theta\epsilon\rho}$ (destroy); $\delta\psi$ (voice), i.e. Fóm-s, origh. $v\bar{a}k$ -s, Sk. $v\bar{a}k$ for * $v\bar{a}k$ -s (cry), beside Fém-os (word),

origl. vāk-as, Sk. vak-as, origl. √vak (cry); γόν-υ, gen. γόνατος, § 20. older (Iôn.) γούνατος=*γονϜατος, γουνός=*γονϜος, cf. Sk. ģάπα (genu); ŏ-νο-μα, older (Hom.) οὔ-νο-μα (name), from ŏ-γνο-μα, cf. Lat. gno-men, (Sk. nām-an, also, with root-vowel raised).

In Greek, on account of the prosodic quantity of o, this step is possible only before two consonants, e.g. $\delta\epsilon\delta o\rho\kappa\alpha$ =Sk. $da-d\alpha r\varsigma$ -a, origl. da-da rk-a, beside $\delta\epsilon\rho\kappa$ - $o\mu\alpha\iota$, ϵ - $\delta\rho\alpha\kappa$ - $o\nu$, $\sqrt{\delta\epsilon\rho\kappa}$, origl. dark (see).

Note.—The same kind of step-formation of e=a to $o=\bar{a}$ occurs in Latin, also in Sclavonic, e.g. O.-Bulg. vez-a= original $vagh-\bar{a}mi$, Lat. ueho, bes. $voz-\bar{u}=$ original $v\bar{a}gh-a-s$, Gk. $F\dot{o}\chi-o-\varsigma$, v. infr.

2. $a:\bar{a}$, η . two equivalent sounds. e.g. $\lambda \acute{\epsilon} - \lambda \eta \kappa - a$, $\lambda \acute{\epsilon} - \lambda \bar{a}\kappa - a$, beside $\acute{\epsilon} - \lambda a \kappa - o \nu$, $\sqrt{\lambda} a \kappa$ (cry out), cf. Sk. lap, origh. rak; $\kappa \acute{\epsilon} - \kappa \lambda \eta \gamma - a$ beside $\acute{\epsilon} - \kappa \lambda a \gamma - o \nu$, $\kappa \lambda \acute{a} \not \chi_{\omega} = {}^* \kappa \lambda a \gamma - y \omega$, $\sqrt{\kappa} \lambda a \gamma$ (sound); $\lambda \acute{\epsilon} - \lambda \eta \theta - a$, Dôr. $\lambda \acute{\epsilon} - \lambda a \theta - a$, $\lambda \acute{\eta} \theta \eta$ (forgetfulness), beside $\acute{\epsilon} - \lambda a \theta - o \nu$, $\lambda a - \nu - \theta - \acute{a} \nu \omega$, $\sqrt{\lambda} a \theta$ (escape notice); $\epsilon \acute{\ell} - \lambda \eta \chi - a$ beside $\acute{\epsilon} - \lambda a \chi - o \nu$, $\lambda a - \gamma - \chi - \acute{a} \nu \omega$, $\sqrt{\lambda} a \chi$ (get by lot); $\delta \acute{\epsilon} - \delta \eta \chi - a$ beside $\delta \acute{a} \kappa - \nu \omega$, $\acute{\epsilon} - \delta a \kappa - o \nu$, $\sqrt{\delta} a \kappa$ (bite); $\epsilon \acute{\ell} - \lambda \eta \varphi - a$, $\lambda \mathring{\eta} \psi - \iota \varsigma$ (i.e. $\lambda \eta \pi - \sigma \iota \varsigma = \lambda \eta \beta - \tau \iota \varsigma$), beside $\acute{\epsilon} - \lambda a \beta - o \nu$, $\lambda a - \mu - \beta - \acute{a} \nu \omega$, $\sqrt{\lambda} a \beta$ (take); $\kappa \acute{\epsilon} - \kappa \rho \bar{a} \gamma - a$ beside $\kappa \rho \acute{a} \not \zeta \omega$, $*\kappa \rho a \gamma - \nu \omega$, $\sqrt{\kappa} \rho a \gamma$ (cry aloud); $\acute{\epsilon} - \bar{a} \gamma a$, Iôn. $\acute{\epsilon} - \eta \gamma - a$, i.e. $F \epsilon - F \bar{a} \gamma - a$, f.f. $\nu a \nu a g - a$, beside $\acute{a} \gamma - \nu \nu \mu \iota$, $\sqrt{F} a \gamma$ (break); st. $\mu \mathring{\eta} - \tau \epsilon \rho - \rho$, origh. and Sk. $m \bar{a} - t a r - \rho$, etc.

In elements belonging to the formation of words, o will be found raised to η , \bar{a} : this rule is observed regularly in the stemtermination o=a in such stems as are raised in the feminine termination, e.g. $\nu\acute{e}o$ -s (n. sing. masc.), $\nu\acute{e}o$ - ν (n. sing. neut.), origl. and Sk. $n\acute{a}va$ -s, $n\acute{a}va$ -m (nouo-s, nouo-m), but fem. $\nu\acute{e}$ -a, Iôn. $\nu\acute{e}\eta$ =origl. and Sk. $n\acute{a}v\ddot{a}$ (noua). In $\acute{\eta}$, \acute{a} , origl. and Sk. $s\ddot{a}$, beside \acute{o} , origl. and Sk. sa (pron. demonstr.), and other pronominal stems, is found radical o raised to η , \ddot{a} , the root being equivalent to the stem as often.

Note 1.— $\mu \acute{\epsilon} - \mu \eta \lambda - a$ beside $\mu \acute{\epsilon} \lambda - \epsilon \iota$, $\sqrt{\mu \epsilon \lambda}$ (be a care to), shows also the raising of ϵ to η .

§ 20. Note 2.—Sometimes ā is shortened to ă, e.g. Fάστυ (city), Sk. vās-tu (house), Sk. and original √ves (inhabit); similar shorten-

ings often occur in the a-termn. of feminine stems.

Note 3.—The laying-down of the laws for the use of \bar{a} , η , belongs to the special-grammar of Greek: the Dôric predilection for the more ancient \bar{a} and that of Iônia for η are well known. In Attic likewise \bar{a} changes to η , yet a repeatedly occurs, owing to the surrounding sounds, especially in the case of ρ , ϵ , η , ι , ν (i.e. ξ , $\sigma\sigma$, $\lambda\lambda$, etc.), preceding, and ϵ , η , following, when its change to η is stopped.

For the second step we have ω in examples such as έρ-ρωγ-α, ρ΄ωξ, ρ΄ωγ-ός (cleft), beside ρ΄ηγ-νυμι, \sqrt{F} ραγ (break), cf. Goth. brak, Lat. frag; $\pi \tau \omega \xi$, i.e. $\pi \tau \omega \kappa$ -ς, gen. $\pi \tau \omega \kappa$ -ός (cowering), $\pi \tau \omega \sigma \sigma \omega$, i.e. * $\pi \tau \omega \kappa$ -γω (cower), beside $\pi \tau \eta \sigma \sigma \omega = *\pi \tau \eta \kappa$ -γω, έ- $\pi \tau \alpha \kappa$ -ον, $\sqrt{\pi \tau} \alpha \kappa$ (cower), clearly a further formation from $\sqrt{\pi \tau} \alpha$, cf. $\pi \epsilon$ - $\pi \tau \eta$ - $\kappa \omega$ s; ἀρωγ-ός (helper) beside ἀρήγ-ω (I help). From these examples we gather an equation η :ω::ε:ο.

Also where there is no parallel first step to ω , we must hold it to be in the position of a second step, e.g. $\tau\rho\dot{\omega}\gamma$ - ω beside $\ddot{\epsilon}$ - $\tau\rho\alpha\gamma$ - $o\nu$, $\sqrt{\tau}\rho\alpha\gamma$ (gnaw, chew); $\ddot{\delta}\delta$ - $\omega\delta$ -a beside $\ddot{\delta}\zeta\omega$ =* $\ddot{\delta}\delta$ - $y\omega$, $\dot{\delta}\delta$ - $y\dot{\eta}$, $\dot{\delta}\sigma$ - $y\dot{\eta}$, $\dot{\delta}\sigma$ - $y\dot{\eta}$, $\dot{\delta}\sigma$ - $y\dot{\eta}$, $\dot{\delta}\sigma$ - $\dot{\eta}$ (gnaw, chew); $\ddot{\delta}\delta$ - $\omega\delta$ -a beside $\ddot{\delta}\zeta\omega$ =* $\ddot{\delta}\delta$ - $y\omega$, $\dot{\delta}\delta$ - $y\dot{\eta}$, $\dot{\delta}\sigma$ - $y\dot{\eta}$, $\dot{\delta}\sigma$ - $y\dot{\eta}$, $\dot{\delta}\sigma$ - $y\dot{\eta}$, $\dot{\delta}\sigma$ - $\dot{\eta}$ (point), $\sqrt{\dot{\alpha}\kappa}$, cf. $\ddot{\kappa}\pi\pi\sigma$ s (equos), origl. ak-vas; $\dot{\omega}$ - $\dot{\delta}\nu$, better $\dot{\omega}\dot{\delta}\nu$ (Sappho, $\ddot{\omega}\iota\nu\nu$ acc. to Ahrens, $\ddot{\omega}\beta\epsilon\sigma\nu$ Hêsuch.), origl. $\bar{a}vya$ -m (ouom, $\dot{k}t$. bird-, of a bird), from origl. avi-s, Sk. vi-s (auis); $\dot{\alpha}\gamma$ - $\omega\gamma$ - $\dot{\eta}$ (leading), $\dot{\alpha}\gamma$ - $\omega\gamma$ - $\dot{\sigma}s$ (leader), beside $\dot{\alpha}\gamma$ - $\alpha\gamma$ - $\epsilon \dot{\nu}\nu$, $\dot{\alpha}\gamma$ - $\epsilon \iota\nu$ (lead); $\delta \ell$ - $\delta\omega$ - $\mu \iota$ beside $\delta \ell$ - $\delta\sigma$ - $\mu \epsilon \nu$, $\sqrt{\delta}\sigma$ (dare); $\dot{\epsilon}\delta$ - $\omega\delta$ - $\dot{\eta}$ (food), $\sqrt{\dot{\epsilon}}\delta$, Lat. ed, origl. and Sk. ad (eat); $\gamma\nu\omega$ - $\tau\dot{\sigma}s$ (known), $\gamma\iota$ - $\gamma\nu\dot{\omega}$ - $\sigma\kappa\omega$ (learn, come to know), cf. Lat. $(g)n\bar{\sigma}$ -tus, $(g)n\bar{\sigma}$ -sco, \sqrt{gna} , from gan.

Note.—Dialectically ov occurs for ω , i.e. \bar{u} , in isolated instances (a weakening which occurs also in Lat.). ω : ov (\bar{u}) ::o:v(u), e.g. Thessal. $\gamma vo\dot{v}\mu a = \gamma v\dot{\omega}\mu\eta$ (insight, opinion), $\sqrt{\gamma vo}$, original gna = gan (learn); $-ovv = -\omega v$, fund. $-\bar{a}m$ in gen. pl., cf. Lat. -um, etc.

§ 21. 2. i-scale.

Root-vowel ι . $l'-\mu\epsilon\nu$, $l'-\theta\iota$, Sk. i-más-i, i-hi, origh. i-masi, i-dhi, \sqrt{i} (ire); ℓ - $\lambda\iota\pi$ - $\nu\nu$, $\sqrt{\lambda\iota\pi}$, Lat. lic, Sk. rik, origh. rik (leave); ℓ (ℓ - ℓ)

=Sk. and origl. vid-mási, st. $Fl\sigma$ -τορ- [n. sing. $i\sigma$ -τωρ and $i\sigma$ -τωρ § 21. (knower, witness)], for *Fiδ-τορ-, f.f. vid-tar, \sqrt{vid} (know); $\tilde{\epsilon}$ -πιθ-ον, $\hat{\epsilon}$ -πιθ-όνην, πίσ-τις (faith), for *πίθ-τι-ς, $\sqrt{\pi}$ ιθ (persuade), and element of stem-formation τι; $\sigma\chi(\delta)$ -η (splinter), $\sigma\chi\iota\zeta\omega$ (split) =* $\sigma\chi\iota\delta$ -yω, $\sqrt{\sigma}\chi\iota\delta$ =Sk. khid, Lat. scid, origl. skid (scindere); δ -μιχ-ε $\hat{\iota}$ ν, $\sqrt{\mu}\iota\chi$ =Sk. mih, origl. migh (mingere); $\lambda\iota\chi$ -νος (daintiness), $\lambda\iota\chi$ -μάω, $\sqrt{\lambda}\iota\chi$, Sk. lih, rih, Lat. lig, origl. righ; $\sigma\tau\iota\chi$ -ος (rank), $\tilde{\epsilon}$ - $\sigma\tau\iota\chi$ -ον, $\sqrt{\sigma\tau\iota\chi}$ (march, tread), Goth. stig, Sk. and origl. stigh; $\tau\iota$ -ς, fund. si-ς, Lat. qui-s, Goth. *si-s, pronl. root, origl. si (dem. and interrog.), etc.

Lengthened $\bar{\imath}$ is a parallel form to i (often depending on fixed proportion of sound), e.g. Hom. \dot{t} -o μ e ν and \dot{t} -o μ e ν beside \dot{t} - ω μ e ν (1 pl. pres. conj.), origl. i-a-mas, \sqrt{i} (ire); $\hat{\imath}\delta$ -os (ntr. sweat), $\dot{\iota}$ - δ - $i\omega$ (I sweat), $\sqrt{i}\delta$, origl. svid, cf. Sk. svid- $y\bar{a}mi$; $\pi\dot{t}$ - $v\omega$ ($\pi\hat{\imath}v\epsilon$), $\pi\hat{\imath}\theta\iota$, beside \dot{e} - $\pi\dot{\imath}$ -ov, $\sqrt{\pi}\iota$ (drink), cf. Sk. $p\bar{\imath}$ beside pa.

i raised by steps.

§ 22.

1. i raised to $\epsilon\iota$; e.g. $\epsilon\tilde{t}$ - $\mu\iota$ (go), Sk. $\dot{\tilde{e}}$ -mi, origl. ai-mi, \sqrt{i} ; $\pi\epsilon\ell\theta$ - ω (1 sing. pres.), $\sqrt{\pi\iota\theta}$, so $\lambda\epsilon\ell\pi$ - ω , $\sqrt{\lambda\iota\pi}$; $\lambda\epsilon\ell\chi$ - ω , origl. raigh- $\tilde{a}mi$ (1 sing. pres.), $\sqrt{\lambda\iota\chi}$, origl. \sqrt{righ} ; $\sigma\tau\epsilon\ell\chi$ - ω , origl. staigh- $\tilde{a}mi$, $\sqrt{\sigma\tau\iota\chi}$; $F\epsilon\ell\delta$ - $\epsilon\tau a\iota$, $\epsilon\ell\sigma$ - $\epsilon\mu$ aι (for * $F\epsilon\iota\delta$ - σ - $\epsilon\mu$ aι), $F\epsilon\ell\delta$ - ϵ 0 (ntr. outward-form), $\sqrt{F\iota\delta}$; $\epsilon\ell\kappa$ - $\epsilon\nu$ (likeness) beside $\dot{\epsilon}$ - $\iota\kappa$ - τ 0 ν , $\dot{\epsilon}$ - $\ell\kappa$ τ $\eta\nu$, $\sqrt{F\iota\kappa}$, clearly (=resemble); $\kappa\epsilon\hat{\iota}$ - τ aι (3 sing. pres. med.)=Sk. $\varsigma\dot{\epsilon}$ - $t\dot{\epsilon}$, \sqrt{ki} (lie), etc.

at occurs in the main perhaps only as a lifeless step-formation where the language has lost all sense of the derivation, and hence for the most part no ι , $\epsilon\iota$, or $\iota\iota$, is parallel to $\iota\iota$, e.g. $a''\theta$ - ω (I kindle), $a''\theta$ - $\varepsilon\sigma\theta$ at (burn), $a'\theta$ - $\acute{\eta}\rho$, $a'\theta$ - $\acute{\epsilon}\rho$ os, (aether), $a''\theta$ - $\varepsilon\sigma\theta$ at (porch), cf. Lat. aed-es, aid-ilis, $\sqrt{i}\theta$ =Sk. idh, indh (burn), Germ. it, in O.H.G. eit (fire); ai- $F\acute{\omega}\nu$, origl. ai- $v\bar{a}n$ -s (time, long time), cf. Lat. ae-uo-m, origl. ai-va-m, Sk. \acute{e} -va-s, origl. ai-va-s (a going), Goth. aiv-s, f.f. $\bar{a}i$ -va-s (time, long time), with other step-forms, \sqrt{i} (go), with sf. van, va (here the language no longer felt the connexion with \emph{i} - $\mu\nu\nu$, $\epsilon\emph{i}$ - $\mu\nu$, $\epsilon\emph{i}$ - $\mu\nu$, $\epsilon\emph{i}$ - ν 0, (point of time), cf. Goth. hvei-la (hour, time, Engl. 'vhile'), origl. kai- $r\ddot{a}$, origl. \sqrt{ki} .

- § 22. Note.—In medial termns., e.g. φέρο-μαι, *φερε-σαι, φέρε-ται, φέρον-ται, αι is not a step-form, but the product of a contraction from f.f. bharā-mami, bhara-sasi, bhara-tati, bhara-ntanti, v. sub. 'Conjugation.'
 - 2. i raised to oi, e.g. $o\overline{i}$ - μos , oi- $\mu \eta$ (road, a going), cf. $a\overline{i}$ - $F\acute{o}\nu$, $e\overline{i}$ - μi , i- $\mu e \nu$, \sqrt{i} (go); $\pi \acute{e}$ - $\pi oi\theta$ -a beside $\pi e \acute{i}\theta$ - ω , $\sqrt{\pi i}\theta$ (\dot{e} - $\pi \acute{e}$ - $\pi i\theta$ - $\mu e \nu$); $\lambda \acute{e}$ - $\lambda oi\pi$ -a, $\lambda oi\pi$ - \acute{o} -s (left, remaining), beside $\lambda e \acute{i}\pi$ - ω , e- $\lambda i\pi$ -ov, $\sqrt{\lambda i\pi}$; $Foi\delta$ -a (know) = Sk. $v\acute{e}d$ -a, with the 1st, Goth. vait with 2nd step, beside $Fei\delta$ -os, \sqrt{Fi} ($Fi\delta$ - $\mu e \nu$); e- $oi\kappa$ -a (seem) beside e- $i\kappa$ - $\acute{\omega}\nu$, for $F\acute{e}Foi\kappa a$, \sqrt{Fi} , (e- $i\kappa$ - τov , e- $i\kappa$ - $\tau \eta \nu$); $Foi\kappa$ -os (house), cf. Sk. $v\acute{e}g$ -as, Lat. $u\bar{i}c$ -us, i.e. *ueic-os, with 1st step, $\sqrt{Fi}\kappa$ =Sk. vig, origl. vik (settle); $Foi\nu$ -os (wine), cf. Lat. uin-um, Germ. wein with 1st step; $\lambda oi\beta$ - $\acute{\eta}$ (lib-atio) beside $\lambda e \acute{l}\beta$ - ω (pour), and $\lambda \acute{l}\beta$ -os (drop), $\lambda i\beta$ - $\acute{a}s$, $-\acute{a}\delta$ -os (moisture), $\sqrt{\lambda i}\beta$; $\sigma \tau oi\chi$ -os (rank) beside $\sigma \tau e \acute{l}\chi$ - ω , e- $\sigma \tau i\chi$ -ov, $\sqrt{\sigma \tau i\chi}$; ei $\mu a \tau o$ - $\lambda oi\chi$ - \acute{os} (blood-licking) beside $\lambda e \acute{l}\chi$ - ω , $\lambda l\chi$ -vos; $\kappa oi\tau$ - η (bed), κoi - $\mu a \sigma \theta a \iota$ (sleep), beside $\kappa e i$ - $\tau a \iota$, \sqrt{ki} , etc.

Note.—In opt. $\phi \not\in \rho$ -ois (etc.)=fund. bhar-ai-s, also in nom. pl. e.g. oi, original sai (tai), oi is the result of a contraction, not a step of a vowel-scale; v. 'Conjugation and Declension.'

§ 23. 3. u-scale.

Radical v, e.g. $\check{\epsilon}$ - $\phi v \gamma$ -ov, $\phi v \gamma$ - $\acute{\eta}$ (fug-a), $\sqrt{\phi} v \gamma$, Sk. $bhu\acute{g}$ (bhug- $n\acute{a}$ -s, bent), Goth. bug (bend), Lat. fug (only here and in the Greek with a narrower sense); $\zeta v \gamma$ - $\acute{o}v$ (yoke)=Lat. iug-um, Sk. and origl. yug- $\acute{a}m$, $\sqrt{y}ug$ (join, iungere); $\check{\epsilon}$ - $\rho v \theta$ - $\rho \acute{o}$ -s (red) =Sk. rudh- $ir\acute{a}$ -s, f.f. rudh-ra-s, $\sqrt{\dot{\rho}}v\theta$, origl. and Sk. $\sqrt{r}udh$, Goth. rud (be red), etc.; $\sigma \acute{v}$, $\tau \acute{v}$ (thou, du), cf. Sk. tv-am, Lat. tu, Lith. tu, Sclav. ty; $\kappa \lambda \acute{v}$ - ω (hear), $\sqrt{\kappa}\lambda v$, Sk. gru, Goth. hlu (Eng. loud, lud=voice), origl. kru; $\dot{\rho}v$ - $\tau \acute{o}$ -s (flowing), $\sqrt{\dot{\rho}}v$, Sk. and origl. sru (flow), so $\dot{\epsilon} \dot{\rho} \dot{\rho} \acute{v}$ - ηv =* $\dot{\epsilon}$ - $\sigma \rho v$ - ηv , Germ. stru (in $str \ddot{o}m$, stream, with inserted t); $\phi \acute{v}$ - ω (am), $\phi \acute{v}\tau$ -ov (being), $\sqrt{\phi}v$, Sk. bhu, Lat. fu, origl. bhu (be); $\kappa \acute{\epsilon}$ - χv - $\mu a\iota$ (perf.), $\sqrt{\chi}v$, Goth. $\sqrt{g}u$ -t (pour) (with a t for further formation); $\ddot{\epsilon}\sigma$ - σv - $\mu a\iota$, (pf.), $\sigma \acute{v}$ - τo (aor.), $\sqrt{\sigma}v$ (rush); $\dot{\omega}\kappa$ - \dot{v} -s=Sk. $\bar{a}\varsigma$ - \dot{u} -s, origl. $\bar{a}k$ -u-s

Note 1.—The older sound u has been kept in Boiôt. $(\tau o \acute{v} = \sigma \acute{v}, \kappa o \acute{v} \nu \epsilon \varsigma = \kappa \acute{v} \nu \epsilon \varsigma$, etc.), and in diphth. αv . The later $v = \ddot{u}$ occurs proportionately early, however. The same transition of sound occurs also in other languages. Lat. una became Fr. une, pronounced $\ddot{u}n$.

Note 2.—In Greek as well as in Umbr., ι occurs as a weaker representative form of υ . In mod. Gk. it is well known that υ has universally become ι . So $\phi \hat{\iota} - \tau \upsilon - \varsigma$ (father, begetter), $\phi \hat{\iota} - \tau \dot{\upsilon} - \omega$ (beget) = Lat. fu - tu - o, $\checkmark \phi \upsilon$, original bhu; $\delta \rho \dot{\iota} - o \upsilon$, also $\delta \rho \dot{\iota} - o \varsigma$ (forest), and $\delta \rho \hat{\upsilon} - \varsigma$ (tree), cf. Sk. dru-, masc. n. wood, m. tree), Goth. triu (tree); $\sigma \dot{\iota} - a\lambda o - \varsigma$ (hog) and $\sigma \hat{\upsilon} \varsigma$. Curt. Gk. Et.² p. 647 sqq.

Step-formation of u.

§ 24.

1. step ϵv , e.g. $\phi \epsilon \dot{v} \gamma - \omega$ (flee), $\pi \dot{\epsilon} - \dot{\phi} \epsilon v \gamma - a$, $\sqrt{\phi} v \gamma$; $\dot{\epsilon} \lambda \epsilon \dot{v} [\theta] - \sigma o \mu a \iota$ (shall come), $\sqrt{\dot{\epsilon}} \lambda v \theta$ in $\mathring{\eta} \lambda v \theta o v = *\dot{\epsilon} - \epsilon \lambda v \theta - o v$; $\kappa \lambda \dot{\epsilon} F - o \varsigma = Sk$. $\varsigma r \dot{a} v - a s$ (fame), origl. k r a v - a s, $\sqrt{\kappa \lambda} v$; $\pi \lambda \dot{\epsilon} F - \omega$ (sail) = Sk. and origl. $p \dot{l} \dot{a} v - \ddot{a} m i$, $\sqrt{\dot{\epsilon}} \dot{v} - \mu a$ (stream), $\dot{\rho} \dot{\epsilon} \dot{v} - \sigma o \mu a \iota$, $\dot{\rho} \dot{\epsilon} F - \omega$ (flow) = Sk. and origl. $s \dot{r} \dot{a} v - \ddot{a} m i$, $\sqrt{\dot{\rho}} v$, origl. and Sk. $\sqrt{s} r u$ (flow); $\pi v \dot{\epsilon} \dot{v} - \mu a$ (breath), $\pi v \dot{\epsilon} \dot{v} - \sigma \omega$, $\pi v \dot{\epsilon} F - \omega$ (blow), $\sqrt{\pi v} v$; $\sigma \dot{\epsilon} \dot{v} - \omega$ (rush), $\sqrt{\sigma} v$; $\chi \dot{\epsilon} F - \omega$ (pour), $\sqrt{\chi} v$; $\xi \dot{\epsilon} F - \omega$ (I scrape), $\sqrt{\xi} v$; $Z \dot{\epsilon} \dot{v} - \varsigma$ (nom. propr. God), for * $\delta y \dot{\epsilon} v - \varsigma$, in Sk. with 2nd step $d y \ddot{a} u - s$ (heaven), in the other cases from \sqrt{div} , $\sqrt{\delta u} F = d y u$, * $\delta y v$, ξv , etc.

av is here too a lifeless step-formation, e.g. aὐ-ω for *aὐσ-ω

- § 24. (kindle), ἔν-ανσ-μα (tinder), cf. εὔ-ω, Lat. uro=*ous-o, *eus-o (see Lat. 'Vowels'), Sk. ὁš-āmi, origl. aus-āmi, √uš, origl. us; αὐγ-ή (glance), √ὐγ, cf. Sk. ὁǵαs (force); αὐξ-άν-ω, i.e. *αὐγ-σανω (make to grow), cf. Lat. aug-eo, √ug (which occurs pure in Lith.).
 - 2. Second step ov occurs seldom, espec. when u is medial (no * πe -φουγ- α =Goth. baug,=*bu- $b\bar{a}uga$, like λέλοι πa), while we find it compensated for by the first step, yet cf. $\epsilon i \lambda \dot{\eta} \lambda o \nu \theta \alpha$ (Hom.) from $\sqrt{\epsilon}\lambda\nu\theta$, cf. $\mathring{\eta}\lambda\nu\theta\nu$ and $\epsilon\lambda\epsilon\dot{\nu}(\theta)\sigma\nu\mu\alpha\nu$ [origl. $\sqrt{\epsilon}\lambda=$ έρ, origl. ar (go), in έρ-χομαι (come, go), f.f. er-skomai, further formed in Greek by sf. ν ($\pi \rho o_5 - \eta \lambda \nu - \tau o_5 = e \pi - \eta \lambda \nu_5$, newly come), to which is added the frequent accompaniment of a verb-stem θ (v. sub. 'Formation of Present-stem'); the secondary $\sqrt{\epsilon}\lambda\nu\theta$ so formed sts. was treated as if the $\sqrt{\text{vowel}}$ was really ν (exx. in text), sts. is merely equivalent to an auxiliary vowel (§ 29), which moreover may disappear, $\eta \lambda \theta o \nu$]; $\dot{\alpha} - \kappa \dot{\phi} \lambda o \nu \theta o \varsigma$ (follower), and κέλευθ-ος (way); $\dot{\rho}$ ούσ-ιος (reddish), for * $\dot{\rho}$ ουθιος (or perhaps * $\dot{\rho}$ ουθ- τ ιος, * $\dot{\rho}$ ουθ- σ ιος?), beside $\dot{\epsilon}$ - ρ εύθ- ω (blush), and $\dot{\epsilon}$ - ρ υθ- ρ ός (red); $\sigma \pi o \nu \delta - \dot{\eta}$ (haste) beside $\sigma \pi \epsilon \dot{\nu} \delta - \omega$ (hasten); λοῦσσον= *λουκ-γον (white pith of deal), cf. λευκ-ός (white), ἀμφι-λύκ-η (twilight), $\lambda \dot{\nu} \chi$ - $\nu o \varsigma$. More often beside final u, e.g. $\pi \nu o F$ - $\dot{\eta}$ (blast) beside $\pi\nu\epsilon F-\omega$, $\sqrt{\pi\nu\nu}$; $\delta oF-\dot{\eta}$, $\delta \delta F-os$ (stream), beside ρεθ- μa , $\sqrt{\rho v}$; $\chi \circ F - \dot{\eta}$ (outpouring) beside $\chi \acute{e} F - \omega$, $\sqrt{\chi v}$; $\pi \lambda \acute{o} F - \circ \varsigma$ (voyage) beside $\pi \lambda \acute{e}F - \omega$, $\sqrt{\pi \lambda \nu}$; $\theta \acute{o}F - \sigma \varsigma$ (swift) beside $\theta \acute{e}F - \omega$, $\sqrt{\theta v}$, Sk. and oright dhu; $\xi \circ F - i \varsigma$ (chisel), $\xi \circ F - \alpha v \circ v$ (carved-work), beside $\xi \in F - \omega$, $\sqrt{\xi v}$; $\sigma \circ F - o \circ \circ \circ$ (quick motion), $\sigma \circ \hat{v} - \mu a \iota = *\sigma \circ F - o \mu a \iota$ (Trag. haste), beside $\sigma \epsilon \dot{v} - \omega$, $\sqrt{\sigma v}$.

In separate instances also av ($\bar{a}v$) is a second step fr. u, e.g. $va\hat{v}s$ (nauis) (i.e. $va\tilde{v}s$ on acct. of $v\eta\hat{v}s$)=Sk. nau-s, Iôn. $v\eta F-\delta s$, Dôr. $vaF-\delta s$, Sk. $nav-\delta s$, point to \sqrt{nu} .

 ωv is only Iôn.= αv , e.g. $\theta \omega \hat{v} - \mu a$ (wonder)= $\theta a \hat{v} - \mu a$, $\theta \epsilon F a$, $\theta \epsilon F a - o \mu a \iota$ (show, gaze), point to $\sqrt{\theta v}$.

 ω also occurs sts. as second step from v, e.g. $\zeta \omega - \mu \delta s$ (broth), cf. $\zeta \dot{v} - \mu \eta$ (yeast), Sk. $y \ddot{u} - \dot{s} a - m$, Lat. $i \ddot{u} - s$, similarly belonging to

 \sqrt{yu} , Gk. ζυ (with which ζέ-ω (cook) for *ζεσ-ω, cf. ἔ-ζεσ-μαι, § 24. ζεσ-τό-ς, has no connexion, cf. O.H.G. \sqrt{jas} , cook); ζώ-ννυμι (gird), $\sqrt{\zeta}v$, origl. yu (join); χ ώ-ννυμι, $\sqrt{\chi}v$, χ έω (pour). If we compare $\pi\lambda$ ώ-ω for $\pi\lambda$ ώFω, Iôn. parallel-form to $\pi\lambda$ έF-ω, Dôr. β ώς= β οῦς=Sk. gāus, and Iôn. $\omega v = av$, hence we infer in Greek a step-formn. $\bar{o}u$, ov=origl. $\bar{a}u$, $\bar{a}v$, where the 2nd element has become assimilated to the first, so that only \bar{o} , ω (= ω o, ou) remains.

Note 1.—Cases such as $o\dot{v}\rho a v\dot{o}$ - ς (heaven) beside Sk. $v\dot{a}runa$ -s (name of a deity); $o\dot{v}\lambda$ - $\dot{\eta}$ (scar) beside Lat. uolnus, Sk. vranam and vranas (wound); $e\dot{v}\rho\dot{v}$ - ς (wide) beside Sk. $ur\dot{u}$ -s for * $var\dot{u}$ -s, show ov, ev, in place of the expected Fo, Fe. The explanation of this is difficult; perhaps it is to be considered less as a transposition of Fo, Fe, to ov, ev, than a shortening fr. original va to $var{u}$ and a step-formation from the latter.

Note 2.—There are three roots θv in Gk.: 1. $\theta \dot{v} \omega$, hasten;

2. θύω, offer; 3. in θαθμα, θεάομαι, gaze.

Note 3.—All vowel-sounds which do not appear in the vowel-scales are therefore unoriginal products of the sound-laws (especially of contraction after the elision of consonants).

Sound-laws of Vowels.

§ 25.

The laws laid down in ordinary Greek grammars, i.e. the laws of contraction, etc., may be passed over as already understood.

At first sight we are struck by the frequently occurring hiatus which arises from elision of spirants y, s, v, and their vocalisation, and which is not by any means invariably obviated by contraction; thus arise forms such as Homêric $\delta\eta i\delta\varphi s\nu$, five vowels (together), 3 pl. opt. from $\delta\eta i\delta\omega$ (slay), fr. $\delta\eta i\sigma s$ (hostile); $\delta\eta i\sigma s$ evidently= $*\delta\eta\sigma i\sigma s$ =Sk. $d\bar{a}sya$ -s (hostile), adjectival form in ya, fr. $d\dot{a}sa$ -s (demon, slave, originally 'foe'), whence $*d\bar{a}sya$ - $y\bar{a}$ -mi (= $*\delta\eta\sigma i\sigma$ - $y\omega$ - μi , whence $\delta\eta i\delta\omega$), of which 3 pl. f.f. $d\bar{a}s$ -ya-yai-nt, in Gk. with superfluous unoriginal ε before personal termination, $*d\bar{a}sya$ -yai-ant as f.f. = $\delta\eta i\sigma$ - $i\sigma$ - $i\sigma$, and in that case with $\varphi = ai$, in consequence of an unoriginal lengthening of $i\sigma$ $i\sigma$ $i\sigma$ 0, comes $i\sigma$ 1, $i\sigma$ 2. (Acc. to Aufrecht in Kuhn's Zeitschrift, vii. 312,

§ 25. sqq., $\delta \eta \iota os$ proved to be Aiolic in $\delta dF \iota os$ belongs to $\sqrt{\delta \upsilon}$; f.f. accordingly of $\delta \eta \ddot{\iota} os$, $\delta \eta \iota \acute{o} \varphi e \upsilon = *d \ddot{d} \upsilon y a - s$, $*d \ddot{a} \upsilon y a - a n t$.) Diphth. a, η, φ , are only secondary products of contraction.

Whilst the termination (except a few instances, e.g. partial shortening of \bar{a} to \bar{a} in fem. and the like, cf. § 20) does not yet exercise a destructive influence on the vowels,—and also the vowels of syllables which follow medially upon one another (excepting the working of the ι of $\sigma\iota$ on the vowel of the preceding syllable) have no essential influence upon one another,—we perceive a variation of the older vowel-system, caused by consonantal influence,—a variation of considerable importance and characteristic of the language.

Important above all are the changes in consequence of the Greek distaste for the original and frequent Indo-European spirants y, v, s; y and v become ι and v, y also becomes ϵ ; v and y as ι and v change position from a following to a preceding syllable; y, v, and s, further fall out from between two vowels. After the disappearance and softening of consonants, frequent vowellengthening takes place. A consonantal sound in the beginning of a word is not unfrequently accompanied by an introductory vowel-sound, and besides occurs the so-called vowel-insertion between two consonants.

- §26a. Introduction of i into a preceding syllable in case of termn. -σι. e.g. (1.) loc. dat. pl. ταῖσι, Iôn. τῆσι, thence ταῖς, fr. *tāsi (pronoml. st. ta raised to tā, and loc. termn. pl. si), and also τοῖσι, τοῖς, fr. *to-si, *tā-si (although another explanation offers itself here, v. sub. 'Declension'). (2.) 2 sing. ind. and conj. act., e.g. φέρεις (indic.), fr. *φερεισι, *φερε-σι, f.f. bhara-si; φέρης (conj.), fr. *φερησι, *φερησι, *φερησι, f.f. bharā-si. §26b. Vocalisation and transposition of y and v.
 - 1. y changes to ι and u to v, e.g. original stem-formative particle ya=Gr. ιο; πάτρ-ιο-ς (paternal), cf. patr-ius, st. πατέρ-, cf. Sk. pitr-ya-s, origl. patar-ya-s; ἄγ-ιο-ς (holy), cf. Sk. yaģ-ya-s (to revere); compar. suff. -ιον, origl. -yans, e.g. ἡδ-ίων, st.

ηδ-lov- (ηδ-iν-s, sweet), f.f. $sv\bar{a}d-y\bar{a}ns$, st. $sv\bar{a}d-yans-$, cf. ελάσσων §26b. for *ελαχyων, f.f. $lagh-y\bar{a}ns$ (ελαχ-ν-s, small, f.f. lagh-u-s), in the latter of which instt. y as such has disappeared; pres.-st.-suff. origl. ya, e.g. iδ-l-ω (sweat), f.f. $svid-y\bar{a}mi$, δα-lω (kindle), fr. $da-y\bar{a}mi$, cf. κράζω (howl), for *κραγ-yω, with same suff. which here has retained y; in Dôr. fut. form. -σlω for *σyω, origl. $sy\bar{a}mi$; in gen. sing. masc. neut. of a-stem, origl. -asya (Gr. with loss of σ, οιο), e.g. iππο-ιο fr. *iκFοσ-yo=Sk. iξvasya, origl. akva-sya; optat. particle ιη, origl. and Sk. ya, e.g. ε'ην for *ε'σ-γη-μ= origl. as-ya-m, with s lost between two vowels; perf. part. act. fem. vιa fr. origl. $-vant-y\bar{a}$, $-vans-y\bar{a}$, from the latter form with elision of an came $*-vsy\bar{a}$, hence $-usy\bar{a}=Gk$. *vσιa=vιa; δνο, δνω=*δFω, cf. δωδεκα fr. *δFωδεκα, Sk. and origl. dva.

Note.—Esp. in Lesbo-Aiolic v between two vowels is preferred to be=v, e.g. $\chi\epsilon$ - \dot{v} - ω = $\chi\dot{\epsilon}$ F ω (pour), $\sqrt{\chi}v$; so $\pi\nu\epsilon\dot{v}$ - ω =* $\pi\nu\dot{\epsilon}$ F ω (breathe), $\sqrt{\pi\nu}v$; $\theta\epsilon\dot{\nu}\omega$ = $\theta\dot{\epsilon}$ F ω (haste), $\sqrt{\theta}v$, etc.

2. Further, ϵ occurs sts. undeniably for y (not however for v, F) especially after consonants; in the cases from y there remains only the accompanying vowel-sound itself, as a short and indeterminate vowel which is nearly $= \epsilon$, e.g. $\epsilon = y$ in fut. forms, $\pi \lambda \epsilon v \sigma \delta \nu \mu a \iota$, $\phi \epsilon v \xi \delta \delta \nu \mu a \iota = \sigma \delta \epsilon \nu \mu a \iota$, $\xi \delta \nu \nu \mu a \iota$, fund. f. -syāmai; further in $\kappa \epsilon v \epsilon' \delta s$ (empty), Aiol. $\kappa \epsilon' \nu \nu \sigma s$, both fr. * $\kappa \epsilon \nu \nu \sigma s$, f.f. kvanyas, Sk. $\epsilon \bar{u} n \nu \sigma s$; éteós (true) = Sk. satyás; $\sigma \tau \epsilon \rho \epsilon \delta s$ (firm, solid) beside $\sigma \tau \epsilon \rho \rho \delta s$, f.f. * $\sigma \tau \epsilon \rho \nu \sigma s$, staryas, fem. $\sigma \tau \epsilon \delta \rho \sigma s$, staryā; Epic $\delta \nu \sigma \rho \sigma s$ = $\delta \nu \sigma \sigma \sigma s$ (manliness), f.f. of suff. is $\nu \sigma \sigma s$ (st. $\delta \nu \sigma \sigma s$), n. sing. $\delta \nu \sigma \sigma \sigma s$ (man).

Note 1.—In cases of declens, e.g. $\pi\delta\lambda\epsilon\omega\varsigma$, ϵ is not=y, but there was a step-raising of ι to $\epsilon\iota$, and the representative y was lost; e.g. $\pi\delta\lambda\epsilon\omega\varsigma=\pi\delta\lambda\epsilon\sigma\varsigma$, fr. * $\pi\sigma\lambda\epsilon y$ - $\sigma\varsigma$, st. $\pi\sigma\lambda\iota$ (city), f.f. parai-as, st. pari.

Note 2.—Original v also does not change to ι . In poetry perhaps the metrical forms such as $\pi\lambda\epsilon\ell\epsilon\nu$ for $\pi\lambda\epsilon\ell\epsilon\nu$ (sail), $\sqrt{\pi\lambda\nu}$, raised to $\pi\lambda\epsilon\nu$, $\pi\lambda\epsilon F$, may be traced to a present st. in ya, which the Gk. has strangely liked, thus $\pi\lambda\epsilon\ell\omega = *\pi\lambda\epsilon F - y\omega$, while $\pi\lambda\epsilon\omega = \pi\lambda\epsilon F\omega$; $\nu\epsilon\ell\omega$ beside $\nu\epsilon F\omega$ (new), $\nu\epsilon\iota\omega$ beside $\nu\epsilon F\omega$

§ 26b. (fallow), brings us to a f.f. navyas, which clearly occurs in Lith. nau-yas, Goth. niuyis, st. niuya- (new). From such cases $\epsilon\iota$ may have become a more widespread representative of ϵ by analogy. In $\pi\nu o\iota\dot{\eta}$ for $\pi\nu o\dot{\eta}$, we find ya-stems, whilst $\pi\nu oF\dot{\eta}$ ($\sqrt{\pi\nu\nu}$) has suff. a, $\pi\nu o\iota\dot{\eta} = *\pi\nu oF\iota\dot{\eta} = *\pi\nu oF\eta$, suff. ya.

Note 3.— $\dot{\epsilon}\dot{\delta}\varsigma = \dot{\epsilon}F - \dot{\delta}\varsigma$, Lat. sou-os, suus, f.f. of both *sev-os; $\tau \dot{\epsilon}\dot{\delta}\varsigma = \tau \dot{\epsilon}F\dot{\delta}\varsigma$, Lat. touos, tuus, f.f. *tevos (yet $\sigma\dot{\delta}\varsigma$, fr. $\sigma Fo\varsigma = *\tau Fo\varsigma$, not raised from $\sqrt{\tau}\upsilon$); through the Latin the Italograec f.-forms are made clear. In forms like $\dot{\eta}\delta\epsilon \dot{\epsilon}a$, fem. of $\dot{\eta}\delta\dot{\nu}\varsigma$ (sweet), there is a clear step-raising, thus f.f. is $\dot{\eta}\delta\epsilon F - \iota a = sv\bar{a} - dav - y\bar{a}$, diverging from the unraised Sk. $sv\bar{a}dv\dot{\gamma}$, fr. * $sv\bar{a}dvy\bar{a}$.

Note 4.—G. Curt. Gr. Et.² p. 500 sqq., treats of o, ω , as representatives of original v. This occurs on the whole but seldom, and mostly in words of uncertain etymology, e.g. $\delta o \acute{a} \nu$ (Alkman), for $*\delta F a \nu$, $*\delta F \eta \nu$, $\delta \acute{\eta} \nu$ (long while), and these must stand for $*\delta \iota F a - \nu$, $*\delta \iota F \eta - \nu$, acc. of a st. $*\delta \iota F a - \nu$ Lat. *diue, in die - s = *dive - s (day, for meaning cf. Lat. diu, long).

3. When y and v stand after v, ρ , they regularly occur as v and v before the consonants: in Aiolic dialects, however, assimilation takes place to the preceding consonant: this assimilation occurs in the case of λ in the other dialects, transposition in the case of λ is merely the exception. The origin of the transposition we must hold to be this, that at first, whilst y and v were yet in existence, an i and v arose by assimilation in the foregoing syllable (as in Zend), and that long afterwards the v, v, disappeared.

y; e.g. κτείνω (kill), Aiolic κτέννω, for *κτεινγω, fr. *κτεινγω; μέλαινα (fem. fr. stem μέλαν- black), fr. *μελανγα; χείρων (worse), Aiol. χέβρων, for *χειρ-γων, fr. *χεργων; φθείρω (destroy), Aiol. φθέρρω, for *φθεργω; κλίνω (lay), Aiol. κλίννω, for *κλινγω; κρίνω (sift), Aiol. κρίννω, for *κρινγω; πλύνω (wash), for *πλυινω, *πλυινγω, *πλυινγω, contrn. of $\iota\iota$ and ι to - and $\bar{\iota}$.

In the case of λy the assimln. occurs outside the Aiolic dial., $\partial \phi \epsilon i \lambda \omega$, however, for $*\partial \phi \epsilon \lambda y \omega$, Hom. $\partial \phi \epsilon i \lambda \omega$ (ought).

Note 1.—After ν , ρ , λ , original y very often= ι , e.g. $\chi \rho \acute{o} \nu - \iota o$ - ς ,

έλευθέριο-ς, μακάριο-ς, παράλιο-ς, collectively constructed with § 26b. original suff. ya.

Note 2.—For epenthesis of y beside other consonants, we have good instances in $\mu\epsilon l\zeta\omega\nu$ (greater) for * $\mu\epsilon\nu\gamma$ - $y\omega\nu$, fr. * $\mu\epsilon\gamma$ - $y\omega\nu$, $\mu\epsilon\gamma$ - with compar. suff. original -yans; $\zeta=\gamma y$, consequently this is a clear case of genuine epenthesis; $\kappa\rho\epsilon i\sigma\sigma\omega\nu$ (stronger, better) for * $\kappa\rho\epsilon\tau$ - $y\omega\nu$, fr. * $\kappa\rho\epsilon\tau$ - $y\omega\nu$ ($\kappa\rho\epsilon\sigma\omega\nu$ preserved in diall.); $\sigma\sigma=\tau y$ (v. post.) formed just like $\mu\epsilon l\zeta\omega\nu$; $\pi\epsilon l\kappa\omega$ (beside $\pi\epsilon\kappa\omega$, comb) for * $\pi\epsilon\kappa y\omega$, which by the laws of sound ($\kappa y=\sigma\sigma$) must coincide with $\pi\epsilon\sigma\sigma\omega$ (cook) in form; st. $\gamma\nu\nu a\iota\kappa$ -($\gamma\nu\nu a\iota\kappa\delta$ s, gen. fr. $\gamma\nu\nu\eta$, woman) for * $\gamma\nu\nu a\kappa\iota$, cf. $\phi\nu\lambda a\kappa ls$ (femaleguard); st. $al\gamma$ - (n. sing. $al\xi$ for $al\gamma$ -s, goat) for * $al\gamma$ -, cf. Sk. $all\omega$ -s (stag), $all\omega$ (goat) (Curt. Gr. Et.² p. 608). It cannot be denied that $\pi\epsilon l\kappa\omega$ for * $\pi\epsilon\kappa$ - $y\omega$ is very doubtful phonetically.

v; e.g. γουνός, γοῦνα (Aiol. γόννος, γόννα), γούνατος, for γον Fός, γόν Fα, γόν Fατος, st. γόνν (knee); οὖλος, Ion. = $\~$ δλος (all), fr. $\~$ δλFος, cf. Sk. sárva-s (every, all), Lat. saluo-s, sollus (Fest. totus), fr. *soluo-s; παῦρο-ς (small, few) fr. *παρ Fο-ς, cf. Lat. paruo-s; νεῦρο-ν (sinew) fr. *νερ Fο-ν, cf. Lat. neruo-s.

In consequence of the evanescence of y, v, s, vowel- \S 27. accumulation and contraction occur frequently.

Thus s disappears, e.g. in $\phi \acute{e} \rho \eta$ fr. * $\phi \acute{e} \rho \sigma a\iota$ (2 sing. pres. med. fr. $\phi \acute{e} \rho \omega$, bear), Sk. bhárasē; $\mu \acute{e} \nu o \nu s$ (gen. sing. fr. $\mu \acute{e} \nu o s$, might) fr. * $\mu e \nu e \sigma o s$, Sk. mánas-as; $e \acute{\iota} \eta \nu$ (1 sing. pres. opt. of $e \acute{e} \sigma$ -, esse) fr. * $e \acute{e} \sigma$ - $\nu \eta \nu$, f.f. as- νa -m; $e \acute{\iota} \pi \acute{e} \mu \nu \nu$ fr. * $e \acute{e} \sigma$ - $\sigma e \pi$ - $\sigma \mu \eta \nu$, $\nu \acute{e} \pi$ (follow), i.e. $\sigma e \pi$, Sk. sak, Lat. seq, in $e \pi o \mu a\iota$; $e \acute{\iota} \rho \pi o \nu$ fr. * $e \acute{e} \sigma e \rho \pi$ - $\sigma \nu$, $\nu \sigma e \rho \pi$ (crawl), Sk. sarp, Lat. serp- σ ; $\nu \sigma e \sigma \iota \nu \nu \sigma \iota \nu \sigma \iota \nu \nu \sigma \iota \nu \sigma$

F disappears in εἰργασάμην (Fεργάζομαί, work) fr. *ἐ-Fεργασαμην; εἶπον, εἰπεῖν, older ἔ-ειπον, fr. *ἐ-Fε-Fεπ-ον=f.f. a-va-vak-am, redupl. aor. of \sqrt{F} επ (speak), Sk. vak, Lat. uoc, f.f. vak, etc.

Loss of y is common above all in the stems whence arise the contr. vbs. in $\epsilon\omega$, $\delta\omega$, $\delta\omega$, fr. * $\epsilon y\omega$, * $ay\omega$, * $oy\omega$ =Sk. and oright. - $ay\bar{a}mi$, e.g. $\phi o\rho \hat{\omega}$, $\phi o\rho \hat{\epsilon}\omega$ (bear)=Sk. $bh\bar{a}r\dot{a}y\bar{a}mi$, etc.

Note.—The sound-laws by which concurring vowels are regulated in different dialects do not belong in this place;

§ 27. because they extend to explain the Greek forms alone. The fundamental-forms, however, in the commonest and most important cases, conform to the rules laid down in the construction of stems and words.

The forms peculiar to the Greek, e.g. $\delta\rho\delta\omega$, $\delta\rho\delta\alpha$, by assimilation for $\delta\rho\delta\omega$, $\delta\rho\delta\epsilon\iota$; $\delta\rho\delta\omega\sigma\iota$ beside $\delta\rho\delta\sigma\iota$, $\delta\rho\delta\sigma\iota$, etc., frequently offer difficulties in their explanation.

- § 28. After the evanescence and medial and final loss of consonants, there often occurs a compensatory lengthening.
 - 1. n lost before s, followed by lengthening of preceding
 - ο to ου—e.g. φέρουσι (they bear)=*φερονσι fr. φέροντι= bháranti, φέρουσα=*φερονσα fr. *φεροντyα, etc.; λύκους (acc. pl. st. λυκο-, wolf)=*λυκο-νς, cf. Goth. vulfa-ns; Krêtan τό-νς=τούς (acc. pl. st. το- demonstr.), f.f. ta-ns, ta-ms.
 - ε to ει—e.g. $\tau\iota\theta$ είς (n. sing. m. part. pres. act. fr. $\tau\iota\theta\eta$ -μι, place, $\sqrt{\theta}$ ε)=Krêtan $\tau\iota\theta$ ένς fr. * $\tau\iota\theta$ εντ-ς; χαρίεις (n. sing. masc. conn. c. χάρις, grace)=* χ αρι-Γεντ-ς (but fem. χαρίεσσα=* χ αρι-Γετγα, without ν , cf. Sk. sf. - ν ant, fem. - ν at $\bar{\imath}$ = ν aty \bar{a} , likewise with loss of n), etc.
 - a to ā—e.g. ἱστάς (n. sing. m. part. pres. act. ἴστη- μ ι, place, $\sqrt{\sigma}$ τα)=*ἱστανς fr. *ἱσταντ-ς, etc.
 - υ to \bar{v} —e.g. δεικνύς (δείκνυ-μι, show)=*δεικνυνς fr. *δεικνυν-τς, etc. Similarly $\epsilon i \mu i$ (am) for * $\epsilon \sigma$ -μι, by compensatory lengthening (cf. Aiol. $\epsilon \mu \mu i$ by assimiln.), Sk. and f.f. $\epsilon i s$ -mi; $\epsilon i s$ -mi; $\epsilon i s$ -mi; $\epsilon i s$ -mos, (mountainous) for * $\epsilon i s$ -νος, Aiol. $\epsilon i s$ -νος (fr. $\epsilon i s$ -νος, mountain, Iôn. $\epsilon i s$ -νος, therefore older * $\epsilon i s$ -νος, $\epsilon i s$ -νος, or-iri, exsurgere), st. $\epsilon i s$ -νος, with sf. -νο-, etc.
 - 2. Moreover medial compensation is found in the formn. of 1 aor. after the loss of σ , preceded by λ , μ , ν , e.g. $\tilde{\epsilon}\nu\epsilon\iota\mu\alpha$ ($\nu\epsilon\mu\omega$, distribute) for * $\epsilon\nu\epsilon\mu$ - $\sigma\alpha$, cf. Aiol. ϵ - $\nu\epsilon\mu\mu$ - $a\tau\sigma$, by assimiln.; $\epsilon\phi\eta\nu\alpha$ ($\phi\alpha\ell\nu\omega$ for * $\phi\alpha\nu\nu\omega$, point out) for * $\epsilon\phi\alpha\nu$ - $\sigma\alpha$, $\epsilon\sigma\tau\epsilon\iota\lambda\alpha$ ($\sigma\tau\epsilon\lambda\lambda\omega$ for * $\sigma\tau\epsilon\lambda\nu\omega$, send) for * $\epsilon\sigma\tau\epsilon\lambda$ - $\sigma\alpha$, Aiol. representation of compensation, $\epsilon\sigma\tau\epsilon\lambda\lambda\alpha$, etc.
 - 3. Compensation by lengthening is frequently found in nom. sing. masc. of consonantal stems to compensate for lost

final s or τs, e.g. ποιμήν (shepherd) for *ποιμεν-s, cf. Sk. rάģā § 28. for *rāģan-s, Lat. homo for *homon-s, Goth. guma (man), i.e. *gumā for *guman-s; μήτηρ (mater) for *μητερ-s, cf. Sk. mātā for *mātar-s; πατήρ (father) for *πατερ-s, cf. Sk. pitā for *pitar-s, Old Lat. patēr for *pater-s, Goth. fadar, i.e. *fadār, for *fadar-s; εὐμενής (well-meaning) for *-μενεσ-s, cf. Sk. sumanās for *-manas-s; φέρων (bearing) for *φεροντ-ς; πεποιθώς (perf. pt. act. πέποιθα, trust) for *πεποιθ-Fo-τς.

Vowel insertion and addition.

§ 29.

1. Vowel insertion occurs in Gk. in the same way as in Oscan and O.H.G., only less regularly. Acc. to G. Curtius, Gr. Et.² 656, sqq., this change takes place only in the neighbourhood of r, l, and nasals, so that it clearly arises from the vowel-sounds contained in these consonants. α and ϵ occur most frequently. o and ι are rarer, υ rarest, as vowels attached to these consonantal sounds: e.g. δ-ρέγ-ω (reach, stretch), √δρεγ fr. δργ, cf. Sk. arģ (reach), beside ὀριγ-νάομαι (stretch) and ὀρό-γ-υια beside ὀργ-υιά (fathom), where clearly όρεγ, όριγ, όρογ=όργ, origl. arg; ταράσσω =*ταραχ-yω (make uneven, disturb), beside τέ-τρηχ-α (perf.) and τραχ-ύς (rough, uneven), $\sqrt{\tau \rho \alpha \chi}$, therefore; ἀλεγ-εινός (painful) beside άλγ-ος (pain); δολιχ-ός (long)=Sk. dírgh-ás, √dargh. beside ἐν-δελεχ-ής (unbroken, uninterrupted), fr. same root; ήλυθ-ον beside ήλθ-ον (v. supr. § 24); χάλαζα (hail), i.e. *χαλαδγα, cf. Skl. grad-ŭ, Lat. grand-o, Sk. hrād-unī (storm); κολεκ-άνος, κολοκ-άνος (lank), κολοσσός (colossus) for *κολοκ-γος, cf. Sk. krç-á-s (lank), √karç (make lean), Lat. crac-entes (graciles), origl. \(\lambda krak \); κονίς, pl. κονίδ-ες (dust, nits), cf. O.H.G. hniz, Bohem. hnid-a. Even long vowels clearly arise in this way, e.g. ἐρωδ-ιός (heron), Lat. ard-ea.

Note.—But ϵ is no auxiliary vowel in such forms as ήδεῖα, i.e. *ήδεF- $\iota \alpha$ (v. supr. § 26 b. 2, n. 2): and also in $\dot{\epsilon}$ πέεσσ ι fr. * $\dot{\epsilon}$ πεσε-σ ι , * $\dot{\epsilon}$ πεσε-σ ι , κύνε-σ ι , loc. pl. st. $\dot{\epsilon}$ πες- ($\dot{\epsilon}$ πος, word), κυν- (κύων, dog, g. κυν-ός), and other loc. pls. in consonantal stems. These are probably constructed on the analogies of the ι - and ν - stems, cf. πόλε- σ ι , st. πόλι- (state), γλυκ $\dot{\epsilon}$ - σ ι , st. γλυκ $\dot{\nu}$ - (sweet), as

- § 29. doubtless in other languages consonantal stems have often become allied to vowel stems, especially to the *i*-stem (e.g. Lat. pedi-bus, st. ped-). [Curt. has suggested doubts which I do not understand, especially on account of the Hêrakl. πρασσόντ-ασσι; he maintains a helping-vowel in these cases.] Less still do futs. of verb-stems in λ, μ, ν, ρ, belong here, e.g. τενῶ fr. *τενεσω, *τενεω; βαλῶ fr. *βαλεσω, *βαλεω. In these cases we come upon the verb-stem -εσω, original asyāmi, fut. of √as (esse) (v. sub. 'Conjugation').
 - 2. Vowel addition (prefix).

This phenomenon of sound also is to be referred to the slight development of the vocal-sound before the following consonants. Acc. to G. Curtius (Gr. Et.² p. 649, etc.) prefixed-vowels are very rare before simple momentary sounds; they never occur before τ , π , ϕ , but on the contrary, most frequently before more than one consonant, before liquids, and before nasals. Exx. a) before two consonants, \mathring{a} - $\sigma\tau\acute{\eta}\rho$ (star), cf. Latin stella for *sterula, Goth. stairnō, Sk. st. star-; \mathring{o} - $\phi\rho\acute{v}$ -s (brow), Sk. $bhr\bar{u}$ -s, O.H.G. $br\bar{a}wa$, Skl. $br\check{u}\check{v}$; Lesb. Aiol. \mathring{a} - $\sigma\phi\epsilon$, \mathring{a} - $\sigma\phi\iota$ = $\sigma\phi\acute{\epsilon}$, $\sigma\phi\emph{\iota}$, origl. st. sva; \mathring{e} - $\chi\theta\acute{e}$ s beside $\chi\theta\acute{e}$ s (yesterday), Sk. hyas, etc.

- b) before λ , μ , ν , ρ ; $\hat{\epsilon}$ - $\lambda a \chi \dot{\nu} s$ (small), Sk. $lagh \bar{u} s$, Lat. $leu i \cdot s$, fr. * $leg u \cdot i s$; $\hat{\epsilon}$ - $\mu \dot{\epsilon}$, $\hat{\epsilon}$ - $\mu o \dot{\epsilon}$, beside $\mu \dot{\epsilon}$, $\mu o \dot{\epsilon}$, origh. st. ma (pron. 1 pers.); $\hat{\sigma}$ - $\mu \iota \chi \dot{\epsilon} \omega$ (mingo), $\hat{\sigma}$ - $\mu \iota \chi \lambda \eta$ (mist), origh. \sqrt{migh} , cf. Sk. mih (mingere), Lat. mig, mi-n-g0, etc.; \hat{a} - $\nu \dot{\eta} \rho$ (man), Sk. st. nar-, Umbr. ner (prince); $\sqrt{\hat{\epsilon}}$ - $\nu \epsilon \kappa$ (bear), in $\mathring{\eta} \nu \dot{\epsilon} \chi$ - $\theta \eta \nu$, $\mathring{\eta} \nu e \gamma \kappa$ - $o \nu$; $\delta \iota$ - $\eta \nu \epsilon \kappa$ - $\mathring{\eta} s$ (thorough), for $\nu \epsilon \kappa$, cf. O. Bulg. nes-ti, Lith. $n \dot{\epsilon} s z$ -ti (bear); $\hat{\epsilon} \nu$ - $\nu \dot{\epsilon} F a$ (nine), with redupld. ν , cf. Lat. nouem, Sk. $n \dot{\alpha} \nu a n$, etc.; $\mathring{\sigma}$ - $\nu \nu \xi$ (nail), st. $\mathring{\sigma} \nu \nu \chi$ -, Sk. $n \dot{\alpha} k h a$ -s, $n \dot{\alpha} k h a$ -m, O.H.G. $n \dot{\alpha} g e l$; $\mathring{\sigma}$ - $\nu \nu \mu a$, name, cf. Lat. $(g) n \ddot{\sigma} m e n$, Sk. $n \ddot{\alpha} m a n$ -, Goth. $n \dot{\alpha} m a n$ -, where in the Gk. the o did not arise until the origh. initial g had disappeared, $\hat{\epsilon}$ - $\rho \nu \theta \rho \dot{\sigma} s$ (red)=Sk. $r u d h \dot{\tau} \dot{\alpha} s$, Lat. $r u \dot{\sigma} e n$ (gloom), Goth. $r \dot{\tau} k \nu i s$ (dimness); $\hat{\epsilon}$ - $\rho \dot{\epsilon} \dot{\nu} \gamma$ - $\epsilon \sigma \theta a \iota$ (belch), cf. Lat. $r u \dot{\sigma} c n$ (gloom), Goth. $r \dot{\tau} k \nu i s$ (dimness); $\hat{\epsilon}$ - $\rho \dot{\epsilon} \dot{\nu} \gamma$ - $\epsilon \sigma \theta a \iota$ (belch), cf. Lat. $r u \dot{\sigma} c n$ (gloom), Goth. $r \dot{\tau} k \nu i s$ (dimness); $\hat{\epsilon}$ - $\rho \dot{\epsilon} \dot{\nu} \gamma$ - $\epsilon \sigma \theta a \iota$
- c) before origh. v; ϵ - $F\epsilon\rho\gamma$ - $\epsilon\iota\nu$ beside $F\epsilon\rho\gamma$ - $\epsilon\iota\nu$ (keep in), cf. Sk. $var\acute{g}$ (keep off); ϵ - $F\epsilon\rho\sigma\eta$ (II. xxiii. 598), Krêt. \ddot{a} - $F\epsilon\rho\sigma a$ beside

Fέρση, ἔρση (ros, dew), cf. Sk. $\sqrt{var\check{s}}$ (rain); $\check{\epsilon}$ -Fείκοσιν (II. vi. § 29. 217) beside εἴκοσι (twenty), Boiôt. Fίκατι, Sk. εῖςἀτί, Lat. uiginti; the initial was oright, dv (dvi=two), the ϵ was not prefixed until the d had disappeared (cf. \check{o} -νομa); and more frequently in the case of F.

d) before other consonants; $\partial \cdot \delta o \dot{v} s$ (tooth), st. $\partial \cdot \delta o v \tau$ -, cf. Lat. st. dent-, Sk. st. dant- and danta-, Goth. tunthu; in this word the o arises clearly, I think, from the vowel-sound of δ , and my view is confirmed by the consonance of the o with the o of the second syllable, as well as by the agreement of all the other languages in initial d. [$\delta \delta \circ v \tau e s$ in Aiolic should, I think, be separated fr. $\delta \delta \delta v \tau e s$, and be regarded as a poetical expression; it is a part. of $\delta \delta \omega$ (eat), 'the eating ones,' i.e. 'teeth'; the oright dant- (tooth) may arise from \sqrt{ad} , du (eat), but in my opinion da-nt- more probably belongs to \sqrt{da} , ad, 'separate, cut'; cf. Zend st. $d\bar{a}$ -ta-, 'tooth.'] $a \cdot \delta \alpha \gamma - \mu \dot{o} s$ (itch), $a \cdot \delta \alpha \xi \omega$, $a \cdot \delta \alpha \xi \omega$ (bite, itch), fr. $a \cdot \delta \alpha v \omega$ (bite), Sk. $a \cdot \delta \alpha s \omega$. For other inst. of prefixed-vowel before other mom. consonn., more or less probable, see Curt. Gr. Et.² p. 653.

LATIN. § 30.

Table of Sounds in the Latin Language.

		(CONSO	vowels.			
MOMENTARY SOUNDS.					PROLONGED SOUNDS.		
		rated.	1	RATED.	NASAL. sonant	r- & l-sound.	Y graduate Color
Gutt.	c, q	g	h		n		$\left \frac{a, \bar{a}}{a}\right\rangle_{e, \bar{e}, ae}$
Pal.				j			$i, \bar{\imath}$ \rbrace $\circ e$
Ling.						r, l	>00)
Dent.	t	\overline{d}	8		n		
Lab.	p	b	f	v	m		u, ū

§ 30. Note 1.—I have placed h amongst the mute spirants, because it is nowhere pronounced with a vowel-sound except in Sk.

Note 2.—Guttural n has no peculiar character; n is gutt. before gutt. consonn. c, g, g (n adulterinum), but not after g, where, contrary to the German usage, it must be pron. like ordinary dental n.

Diphthongs, almost exclusively peculiar to Old. Lat., are ai (ae), au, ei, eu, oi (oe), ou, ui.

§ 31. LATIN VOWEL-SYSTEM.

The Lat. vowel-system has suffered frequent changes in the course of time. Classical Lat., like Umbrian, shows a distaste for diphthongs, and these have changed to more compact sounds: the old diphthongs are vouched for by Old Lat., and esp. by Oscan. In the above cases the Lat. is insensible to vowel-development. A movement of root-vowels in their scales (confined, however, generally to two steps only) is not still shown except in a few roots.

The influence of final sounds, and further of sounds generally on one another (of consonant upon vowel, vowel upon vowel), has reached a high pitch in Lat. Unoriginal shortenings and lengthenings also occur frequently, so that the vowel-system of the Latin has diverged very widely from the original sounds. Besides, Old-Lat. and Osc. (both Italic languages with more origl. vowel-systems) have reached us only in a very fragmentary condition, while Classical Lat. has the characteristics of a written language which became stereotyped under foreign influence, and Umbr. is in the highest degree unoriginal in its vowels. Accordingly, of all Indo-Germ. languages, Lat. offers the greatest difficulties to a scientific investigator.

a is frequently weakened to u and i, and passes in a great measure into e and o (later generally to u), as in Gk,; similarly \bar{a} into \bar{e} and \bar{o} , only in Lat. the influence of neighbouring sounds is clearly the reason for vowel-colouring. In consequence of the full and thorough conformity of the Lat. with

the Greek vowel-scales, we are probably entitled to treat δ in § 31. Latin also as a vowel of the second step.

The *i*- and *u*- scales were in the oldest form of the language exactly like the Greek, especially in the distinction of *ai* and *au* from *ei* and *eu*. In the *u*-scale the second step takes throughout the place of the first, whilst *e* before *u* (*v*) passes into *o*, according to Lat. sound-laws (vid. § 34) [as in Gk. the converse takes place]. The later language, however, has preserved only *au* of the old diphthongs; yet even this diphthong shows a marked tendency to become a simple sound in certain cases.

Latin vowel-scales (Old Lat. sounds distinguished by upright characters):

			Weakening.	Fund vow	el. 1st Step.	2nd Step.
1.	a-scale	loss	. i, u	e, o , a	$o, ar{e}, ar{a}$	ō
2.	i-scale			i	ei ī ē, ai ae	oi oe $ar{u}$
3.	u-scale			2.6	eu au ō	ou \bar{u}

In Class. Lat. eu no longer exists as a vowel-step, but has become ou (i.e. \bar{u}).

The change from diphth. to monophth. is capable of simple physiological explanation (assimilation of both sounds, each to the other, e.g. ei to \bar{e} , ai to ae, oi to oe, au to \bar{o} , or of one to the other, as ei to $\bar{\imath}$, ou to \bar{u}), the change from oi, oe to \bar{u} , is caused by the common passing of o into u (change-scale oi, ui, \bar{u} ; possibly also oe, ue, \bar{u}).

EXAMPLES.

§ 32.

1. *a*-scale.

Weakening. 1. Loss of radical a, e.g. sum, sumus, sunt, siem, etc., for *es-um fund.-fm. as-mi, *es-umus f.f. as-masi, *es-unt f.f. as-anti, *es-iem f.f. as-yām (\sqrt{es} , to be, cf. Gk.); gigno (produce, cf. $\gamma l - \gamma \nu o - \mu a \iota$), fr. *gi-gen-o, \sqrt{gen} (cf. gen-ui, gen-us), origl. gan; especially in the second member of compounds is this loss frequent, as in malo fr. *maulo, and this again fr. *mage-uol-o

§ 32. (magis uolo), and in like cases (v. 'Sound-laws,' § 42): sf. -br-um (in part at least fr. *ber-um), \$\sqrt{ber}\$, origl. bhar (ferre), so that here we have a compound, not a stem-formative sf.; the same remark applies to -gnus fr. *-genus (\$\sqrt{gen}\$, gi-gn-ere), e.g. mali-gn-us (ill-disposed, malus, evil), and others, and -gium in iur-gium (lawsuit) for *iur-igium, cf. rem-ig-ium (rowing), \$\sqrt{ag}\$ (agere), etc.

In stem-formative suffixes, loss of origl. a occurs, as in the kindred languages, e.g. patr-is, older *patr-us, *patr-os, for pater-os, st. pater, f.f. patar-as (gen. sing.), and in many other cases.

2. Weakening of a to i is very frequent, esp. in the second member of a compound, e.g. ac-cipio (receive) beside capio (take); per-ficio (complete) beside facio (make); as-sid-eo (sit by), \(\sigma sad, \text{Lat. sed} ; me-min-i \) (bring to mind), \(\sigma man, \) co-gni-tus (known), \(\sigma gan, \) fr. \(gan; \) in-si-tus (implanted), \(\sigma sa, \) etc.; moreover in stem- and word-formative particles, e.g. \(ueh-is, \) ueh-it (2, 3, sing. pres., \(\sigma ueh, \) carry), for *ueh-isi, *ueh-iti, origl. \(vagh-asi, \) vagh-ati; \(n\bar{o}-min-is \) (gen. sing. \(n\bar{o}men, \) name), origl. \(gn\bar{a}-man-as, \) etc.

It occurs even in the accentuated syllable of the word (as in Germ.), e.g. in-ter (between), Umbr. an-ter, compar. of pronoml. st. an, cf. Sk. an-tár, án-tara-s (inter, interior), Gk. ἔν-τερα; in-(neg.), Umbr. an-, Sk. an-, Gk. ἀν-; igni-s (fire), Sk. agni-s; quin-que (five), f.f. kankan, Sk. páńkan.

In the reduplication-syll. of pres. stems fr. roots in root-vowel a, this weakening takes place regularly, e.g. gi-gno (beget) fr. *gi-gen-o, f.f. ga-gan-āmi, cf. Gk. yi-yv-oµai, \(\sqrt{gan} \); ser-o (sow) = *siso (i changed to e on acct. of the r), f.f. sa-sā-mi, \(\sqrt{sa} \); si-st-o (set), f.f. sta-stā-mi, \(\sqrt{sta} \); sīdo (set myself) fr. *si-sdo, *si-sed-o, f.f. sa-sad-āmi, \(\sqrt{sad} \).

Note.—The lengthening of e weakened from origl. a into \bar{e} (ei) is hardly susceptible of proof: $scr\bar{e}$ (write) beside $\gamma\rho\dot{a}\phi\omega$, since both words are generally akin, we must perhaps assume to be a case of a-scale passing into i-scale, as often in Sclavo-

Teutonic: in cases such as $uir\bar{\imath}$ -tim (man by man) fr. st. uiro- § 32. (uir, man), the analogy of other forms (verbal stems) is followed (cf. tribu-tim, etc.).

3. Weakening of a to u is common, esp. in stem- and wordformative elements, but also in roots, through the influence of certain consonants. i is clearly the furthest weakening from a, for u through intermediate \ddot{u} ("medius quidam inter i et usonus—pinguius quam i, exilius quam u—sonum y Graecae uidetur habere" Gramm.; imp. Claudius Caesar ordered the character |- to be used for this sound) often changes to i, whilst older forms in u exist beside later ones in i; u is also an unimportant representative of weakening from a through o, the older lang. very often retaining o where later u occurs. The vowel-scale of change from a to i is therefore evidently: a, o, u, ü, i. Thus, e.g. a f.f. ap-tama-s becomes *op-tomo-s, op-tumu-s, op-tümu-s, op-timu-s (best), Ital. ottimo; dakama-s, *decomo-s, decumu-s, decimu-s (tenth), Ital. decimo; beside cap-io (take), man-cup-ium (property; Plaut.), oc-cup-are (seize), in-cip-cre (begin), man-cip-ium; con-cut-io (shake violently) beside quat-io (shake), in-sul-sus (unsalted) beside salsus (salted), etc. u is frequent as a merely later change fr. older o (cf. Gk., where o remains), especially in word-formative elements, e.g. nom. acc. sing. masc. neut. of origl. α-stem -u-s fr. Old-Lat. -o-s, Gk. o-s, origl. -a-s; -u-m, Old-Lat. -o-m, Gk. -o-v, origl. -a-m, e.g. da-tu-s (given) fr. da-to-s, Gk. δο-τό-ς, origl. da-ta-s; acc. da-tu-m fr. da-to-m, Gk. δο-τό-ν, origl. da-ta-m. Lat. os, us, generally represents origh. final as, e.g. gen-us (race), earlier gen-os=γέν-os, Sk. ģán-as, origl. gan-as; op-us (work), Old-Lat. op-os, Sk. and origl. ap-as; -bus (sf. dat. abl. pl.), earlier -bos for -byos, Sk. bhyas; ferunt (they bear), Old-Lat. fer-ont, fer-onti, Gk. φέρ-ουτι (φέρ-ουσι), Sk. and origl. bhár-anti; also in pres. part. o clearly is the form of the earlier lang., cf. e-unt-em (him who goes), i.e. e-ont-em, where beside e, o has become u, whilst e regularly occurs; uol-unt-arius (willing)

§ 32. points to a once-existing *uolont-, *uolunt-, beside usual uolent(willing), etc.

After consonantal u, o remains, e.g. uolt (later uult, he will), Sk. and origl. \sqrt{var} ; loquontur (loquuntur, they speak); quom (quum, conj. 'when,' 'since,' cf. quon-iam), f.f. kam; quo-d (which), f.f. ka-t (but is-tu-d, f.f. ta-t); nouo-s, new (nouus), Sk. and f.f. náva-s, etc.

Note.—Through the older o-forms, Latin approaches near to Greek.

§ 33. The root-vowel of the a-scale, origl. a is represented by—

I. a preserved in a very few cases, appearing by preference before g, c, e.g. ac-us (needle), ac-ies (point), ac-erbus (sour),
√ac, Sk. ac, origl. √ak; ag-o (drive), ἄγ-ω, Sk. άg-āmi, √ag;
mag-is (more), mag-nus (great), μέγ-as, Sk. st. mah-ánt- (n. sing.
masc. mah-án), Goth. mik-ils, √mag, Sk. mah fr. magh; frag-ilis (breakable), frag-or (crash), fra-n-go (break), Goth. √brak (pres. brik-a, pf. brak); ang-uis (snake), Sk. áh-is, Gk. ἔχ-υς,
Germ. unk; ans-er (goose) for *hans-er, Germ. gans, Sk. hâs-ás,
f.f. ghans-; al-ius (other), ἄλλος=*àλ-yoς, Goth. al-is; ap-iscor (get), ap-tus, cf. Sk. āp-nō-mi (1 sing. pres. ind. adipiscor) √ap;
sta-tus (placed), Gk. στα-τός, f.f. sta-tas, √sta; sa-tus (sown),
√sa; da-tus (given), da-tor (giver), Gk. δο-τός, δο-τήρ, √da, etc.

2. Origl. a appears as o, especially in roots before and after v, and further in stem- and word-formative elements.

After v, as uom-o (spue), Gk. $Fe\mu-\epsilon\omega$, Sk. $v\acute{a}m-\bar{a}mi$; uol-o (will), uol-t, uol-im, later uult, uel-im, cf. Sk. $v\acute{a}r-\bar{a}mi$ ($vr-n\acute{o}mi$, $vr-n\acute{a}mi$), \sqrt{var} ; uoc-are (call), Sk. \sqrt{vak} , Gk. $Fe\pi$, origl. vak; uort-o (turn), later uert-o, cf. Sk. $v\acute{a}rt-at\bar{e}$ (3 sg. pres. med. uertitur, est), \sqrt{vart} ; uo-s (you), uoster (your), later uester, cf. Sk. vas (uos, uobis); uolu-ere (twirl), Goth. valv-yan (uoluere); cf. quatuor (four) for quatuors, quatuores, beside $r\acute{e}\sigma\sigma apes=ret Fapes$, f.f. prob. valv-valv (empty) in inserr. for vacuus.

Origl. sva is regularly so in Lat., prob. fr. suo for sue, origl.

sva, by the above rules; u falls out, as in te (thee), se (himself), § 33. etc., for *tue, *sue, e.g. socer (father-in-law) fr. *suocer, *suecer, Gk. ἐκυρός for *σ Γεκυρος, Sk. sváçuras (written çváçuras), Goth. svaihra, cf. socrus (mother-in-law), Sk. sváçrūs (written çváçrūs); sorōrem (sister, acc.), Sk. svásūram, f.f. svastūram; sop-or, somnus (sleep), for *sop-nus (cf. ὕπ-νος), Sk. and f.f. sváp-nas, sváp-i-mi (I sleep); son-us (sound), Sk. sván-as.

Before v, e.g. ou-is (sheep), Gk. ŏ $F\iota\varsigma$, Sk. áv-is, Lith. av-is; uou-os, later nou-us (new), Gk. v- ϵF -o ς , Sk. náv-as; nou-en (nine), Gk. ϵv -v- ϵFa , Sk. náv-an.

In other combinations, e.g. mor-ior (die), origl. and Sk. \sqrt{mar} (mori); dom-are (tame), Gk. $\sqrt{\delta a\mu}$ (\Tilde{e} - \Tilde

In terminal particles (stem- and word-formative) o is remarkably regular before s and m (as in Gk.); for later weakening of o to u, v. sup. §§ 32, 3); e.g. suff. -to in n. sing. m. and acc. masc. and neut. -to-s, -to-m, Gk. -\tao-s, -\tao-v, Sk. -ta-s, -ta-m, e.g. in-clu-to-s (famed), acc. clu-to-m, cf. Gk. $\kappa\lambda\nu$ - $\tau\delta$ -s, $\kappa\lambda\nu$ - $\tau\delta$ -v, Sk. cru-tá-s, cru-tá-m, origl. kru-ta-s, kru-ta-m; neut. termn. -os, later us, e.g. gen-os (gen-us, race), Gk. γ é ν -os, Sk. γ é η -as, origl. gan-as, so also Ven-os (prop. n. fem., -os authenticated); Lat. pl. -bos (-bus), Sk. -bhyas, etc.

3. a passes into e very frequently, without assignable reason, in neighbouring sounds: e.g. fer-o (bear), \sqrt{fer} , Gk. $\phi \acute{e}\rho - \omega$, Sk. and origl. bhár-āmi, \sqrt{bhar} ; es-t (he is), \sqrt{es} , Gk. $\acute{e}\sigma - \tau l$, Sk. and f.f. ás-ti, \sqrt{as} ; sed-eo (sit), \sqrt{sed} , Sk. and origl. sad; gen-us (race), Old-Lat. gen-os, \sqrt{gen} , \sqrt{Gk} . $\gamma \acute{e}v$ -os, Sk. $\acute{y}\acute{u}n$ -as, origl. gan-as, \sqrt{gan} ; ueh-it (he carries), \sqrt{ueh} , Sk. $v\acute{a}h$ -ati, f.f.

§ 33. vagh-ati, √vagh; pecu- (cattle), Sk. st. paçú- (n. sing. masc. paçú-s), f.f. stem paku-; eq-uos (horse), √ec, Gk. ἵππος=*ἰκ-Fος, Sk. áç-vas, √aç, f.f. ak-vas, √ak; dec-em (ten), Gk. δέκα, Sk. dáçan-, f.f. dakan-; septem, Gk. ἐπτά (seven), Sk. and f.f. saptán-; dent-em (tooth, acc.), δ-δόντ-a, Sk. dánt-am; men-te-m (mind, acc.), f.f. man-ti-m, √man; fer-ent-em (bearing, acc.), φέρ-οντ-a, Sk. and f.f. bhár-ant-am; the origl. sound-combn. ant also becomes ont, unt, in Lat., e.g. fer-unt (they bear) fr. *fer-onti, Sk. and origl. bhár-ant-i, e-unt-em (going, acc.; cf. § 32), beside fer-ent-em; st. pa-ter- (father), mā-ter- (mother), origl. pa-tar-, mā-tar-; (g) nō-men (name), Sk. ná-man-, f.f. gnā-man, etc. e is often an evident weakening from a, e.g. per-fec-tus (made thoroughly) beside fac-tus (made), etc.

e has proceeded from o in cases such as uert-o, uester, etc., fr. older uorto, uoster, f.f. vart-ā-mi, Sk. and origl. \sqrt{vart} , Goth. varth; uos-ter, cf. Sk. vas (uos, uobis) (cf. § 33). Accordingly e comes after a and o as a lighter vowel.

§ 34. Step-formation of a.

1. Corresponding to e we find o as the equivalent heavier vowel, and o sometimes occurs as a step-form. fr. e=a (cf. Gk. and Sclav.); thus in these cases $o = \bar{a}$; $e : o = a : \bar{a}$, e.g. mon-eo (warn), i.e. mān-āyami, caus. vb. fr. origl. √man (think, thus simply=make to think), beside mens (mind) for *ments, *men-ti-s, f.f. man-ti-s (sf. ti), fr. \(\square\) man, cf. me-min-i (I remember), later with weakening of e to i; noc-eo (hurt), f.f. nāk-ayāmi, caus. vb. fr. origl. √nak, Sk. √naç (die) (so simply 'make to die'), nex, nec-is (death), per-nic-ies (ruin), nec-are (kill), cf. νέκ-υς, νεκ-ρός (corpse); tog-a (wrapper) beside teg-o (cover), √tag (H.G. tak), prob. for stag, cf. στέγ-ω, Sk. sthág-āmi (cover), in Lith. steg-iù (cover) stands beside $st \acute{o}g$ -as (tectum); socius (comrade) beside seq-ui (go with), ad-sec-la (escort); doc-eo (teach), caus. f.f. dāk-ayāmi, beside di-dic-i, disco (learn) for *dic-sco, prob. for *di-dac-sco, cf. $\delta\iota$ - $\delta\acute{a}(\kappa)$ - $\sigma\kappa\omega$ (teach) beside διδάξω, i.e. διδάκ-σω, διδαχ-ή (teaching), \sqrt{dak} (not dic, as in

dic-o, δείκ-νυμι, which must be kept distinct); proc-us (wooer) § 34. beside prec-ari (beg); for-s (chance), for-dus (pregnant), beside fero (bear), \sqrt{fer} , origl. \sqrt{bhar} .

When o is short, the step-formations can take place also before two consonants, e.g. pond-us (n. weight) beside pend-ère (weigh); ex-torr-is (exile), torr-eo (roast)=*tors-eo, cf. tos-tus (p. part. pass. torreo) for *tors-tus, beside terra for *ters-a (the 'dry land' in contrast to the 'water'), \sqrt{tars} , Goth. thars (in thairsan, roast, thairsyan, thirst, vb.), Sk. tarš (thirst). Beside a, o occurs in scob-s (sawdust), scob-ina (rasp), and scab-o (scratch); port-io (share) beside part-em (pars, part), im-pert-io (give, share).

- 2. ē is not common, e.g. tēg-ula (tile) beside tĕg-o and tög-a; rēg-em (rex, king), cf. Sk. rāģ-am, rāģ-ānam beside rĕg-o (rule); lēg-em (lex, law), col-lēg-a (comrade in office) beside lĕg-o (pick out, read), sēd-es (seat) beside sĕd-eo (sit), √sad; sē-men (seed) beside să-tus, so chiefly as a step-formn. of e; ē corresponds to origl. ā in plē-nus (full), f.f. prā-nas, √pra, par (fill); ēd-i, cf. Sk. áda, i.e. *aāda (perf.), fr. ĕd-o (eat), Sk. ád-mi; sēmi-(half), Gk. ἡμι-, Sk. sāmi-, O.H.G. sāmi-; siēm, siēt (1, 3, opt. fr. es, be), cf. εἴην, εἴη, Sk. syām, syāt, origl. as-yā-m, as-yā-t, in which cases perh. i has had an assimilating influence.
- 3. As \bar{e} is to \bar{e} , so is \bar{a} to a in the sound-scale, which, therefore, occurs most often before guttural consonants, e.g. $\bar{a}c$ -er, $\bar{a}c$ -ris (sharp), beside $\bar{a}c$ -ies (point); $pl\bar{a}c$ -are (appease) beside $pl\bar{a}c$ -ēre (please); $p\bar{a}c$ -em (pax, peace), thence $p\bar{a}c$ -are (to pacify), beside $p\bar{a}c$ -isci (bargain); $m\bar{a}c$ -ero (soften) beside $m\bar{a}c$ -er (thin): amb- $\bar{a}g$ -es (roundabout-way), cf. amb-ig-ere (be in doubt), fr. \sqrt{ag} in $\bar{a}g$ -o (drive, lead), Gk. $\tilde{a}\gamma$ - ω , Sk. $\hat{a}g$ - $\bar{a}mi$, origl. ag- $\bar{a}mi$; st. con- $t\bar{a}g$ -io- (con- $t\bar{a}g$ -iu-m, contact), and further formed from it the commoner con- $t\bar{a}g$ -i $\bar{o}n$ (n. sing. con- $t\bar{a}g$ -io), fr. \sqrt{tag} in tango (touch), tac-tu-s (past part. pass.) for *tag-tus, cf. con-tingo (touch, hit); st. suf- $fr\bar{a}g$ -io ($suffr\bar{a}g$ -ium, origly. 'sherd'; vote) beside $fr\bar{a}g$ -or (crash), \sqrt{frag} , cf. fra-n-go (break), in-fri-n-g-o

§ 34. (break into); sāg-ire (perceive), sāg-us (sooth-sayer), sāg-a (witch) beside sāg-ax (knowing); pāg-ina (page, leaf), com-pāg-i-(compages, union), com-pāg-in-(compago), fr. \$\sqrt{pag}\$ in \$pa-n-g-o\$ (fix), cf. \$com-ping-o\$ (fix together); \$uād-o\$ (go) beside \$uăd-o-(uadum, ford); \$lāb-i\$ (glide) beside \$lăb-are\$ (totter); \$dā\$, \$dā-s\$, beside \$dū-tus\$, \$\sqrt{da}\$ (give); \$fā-ri\$ (speak), \$fā-ma\$ (fame), \$fā-cundus\$ (eloquent), beside \$fā-teri\$ (own to), origh. \$\sqrt{bha}\$; \$mā-ter\$ (mother), \$Sk. \$mā-tar-, \$\sqrt{ma}\$; \$frā-ter\$ (brother), \$Sk. \$bhrā-tar-, \$\sqrt{bhra}\$, transposed fr. \$bhar\$.

The fem. of the a-st. had origly. in the Lat. also long a, e.g. $non-\bar{a}$, $coc^{-t}\bar{a}$, origl. $nav-\bar{a}$, $kak-t\bar{a}$, cf. Sk. $n\acute{a}v-\bar{a}$, *pak-t\bar{a}\$ (this form does not happen to occur, but is replaced by an entirely different form $pak-r\acute{a}$), Gk. $v\acute{e}F-\bar{a}$, $\pi e\pi-\tau\acute{\eta}$, fr. nou-o-s, coc-to-s, nou-u-s, coctus, origl. nav-a-s, kuk-ta-s, Gk. $v\acute{e}F-o-s$, $\pi e\pi-\tau\acute{o}-s$. Remains of this \bar{a} have been preserved in Latin.

- 4. Not unfrequently ō is a step-formation from α, especially beside o=a, and where a is a root-termn., further in stemformative elements, e.g. per-son-a (mask) beside son-us (sound), sŏn-are (sound), Sk. and origh. \(\sigma svan; \) sop-io (put to sleep), i.e. Sk. and origl. srāp-áyāmi, causat. verb, beside sŏp-or (sleep), Lat. √sop, Sk. and oright. scap; uōc-em (uox, voice)=Sk. vák-am, Gk. Fόπ-a, origl. rāk-am beside uŏc-o (call), origl. √vak (speak); ōc-ior (swifter), comp. fr. lost adj. corresponding to Gk. ἀκ-ύ-ς, Sk. āç-ù-s (swift) (perh. sounded *oquis), origl. \sqrt{ak} ; dō-num (gift), Sk. and f.f. dá-na-m, dō-te-m, n. dōs (dowry,=dō-ti-s), f.f. dā-ti-m beside dă-tus, v da; gnō-sco (nō-sco, learn), gnō-tus (known, cf. γι-γνώ-σκω, γνω-τός), $gn\bar{o}$ -men (name) beside $(g)n\breve{o}ta$ (mark), co-gni-tus (known), \sqrt{gna} , fr. gan (as later forms show); $p\bar{o}d$ -ex beside $p\bar{e}d$ -o and $p\bar{e}d$ -ico, Sk. and origh. \sqrt{pard} , Gk. $\pi\epsilon\rho\delta$, H.G. farz; da-tōr-em (giver, acc.), Sk. dā-tar-am, Gk. δο-τηρ-a, origh. suff. tar, here raised to tar; quo-rum fr. st. quo- (rel. interrog.), origl. ka, etc.
- 5. \bar{u} as=origl. \bar{a} can only be considered a later parallel form from \bar{o} , since o has frequently become u; probably it does not

occur within the root. Hence the suff. $-t\bar{u}ro$ -, fem. $-t\bar{u}ra$ -, e.g. § 34. da- $t\bar{u}r$ -us (about to give), rup- $t\bar{u}r$ -a (breach), Lat. formus. from stems in $-t\bar{o}r$, origl. -tar, da- $t\bar{o}r$ -, rup- $t\bar{o}r$ -, origl. da- $t\bar{u}r$ -, rup- $t\bar{u}r$ -; the suff. of gen. pl. -um, -rum (prob. for $-\bar{u}m$, $-r\bar{u}m$, cf. Bücheler, Grundriss der Lat. Decl., p. 40) stands for earlier $-\bar{o}m$, $-r\bar{o}m$ (bou-om even in Verg.), Gk. $-\omega v$, in *- ωv , Sk. and origl. $-\bar{a}m$, $-s\bar{a}m$, e.g. (is) tarum=Gk. * $\tau a\omega v$, i.e. $\tau \omega v$, Sk. $tas\bar{u}m$; $v\bar{o}c$ -um=Gk. $Fo\pi$ - ωv , Sk. $v\bar{u}k$ -am.

2. i-scale.

§ 35.

In this, as in the u-scale, there is a lack of roots which present all three steps at once. In the i-scale, I know only the \sqrt{fid} in fides (faith), per-fid-us (faithless) beside con-fid-o (trust), i.e. feid-o (di-feid-ens is vouched for) and foid-os (foedus, treaty): even in roots which appear in two steps, e.g. \sqrt{dic} (Gk. $\delta\iota\kappa$, Sk. $di\varsigma$, etc.), in in-dic-o (point at), causi-dic-us (advocate) beside deic-o, dic-o (say); and \sqrt{i} (go) in i-tum beside ei-s, ei-t, ei-tur= $\bar{\imath}s$, $\bar{\imath}t$, $\bar{\imath}tur$ (cf. $\epsilon\bar{\imath}\mu\iota$, go, Sk. $\dot{\epsilon}$ -mi), there is a step wanting.

This genuine i is dulled to e according to definite laws, e.g. in-dex, in-dic-is (pointer), \sqrt{dic} ; ig-ne-m (fire, acc.) for older ig-ni-m, Sk. agni-m, Lith. ugni. The earlier forms of this acc. occur not uncommonly, as naui-m (ship, acc.) beside naue-m and

§ 35. others. Also mare for *mari, cf. mar-i-a (in similar cases final i is lost); so also in naue-bos, tempestate-bus (inserr.), origl. i has passed into e, stems nāui-, tempestāti-.

Note.—Thus here e is the newer, i the oright and hence older sound; whilst in the case of the more usual i weakened from a, when it is interchanged in the earlier lang. with e, the latter is the earlier sound. The language, however, no longer felt the difference of derivation, and both i-sounds were treated alike. Perh. unoright lengthening of i to $\bar{\imath}$ should not be separated from step-form. of i (to ei).

First step: $ei\ (\bar{\imath},\bar{e})$; *deiu-os, $d\bar{\imath}u$ -os (godlike, deiuae, deiuinus, occur), Sk. $d\bar{e}v\dot{a}$ -s, f.f. daiva-s, \sqrt{div} (shine); deic-o, $d\bar{\imath}co$ (say), f.f. daik- $\bar{a}mi$, \sqrt{dic} ; ei-tur, $\bar{\imath}$ -tur ('it is gone,' impers.), \sqrt{i} ; feid-o, f $\bar{\imath}d$ -o (trust), \sqrt{fid} ; ueiuo-s, $u\bar{\imath}uo$ -s (alive), cf. Sk. $g\bar{\imath}v\dot{a}$ -s, Lith. $g\dot{\jmath}vas$, \sqrt{gi} , redupl. gig, uig, giu, uiu (u for g, through intermed. gu (vid. sub. "Consonn."), ueic-us, $u\bar{\imath}c$ -us (hamlet), Sk. $c\dot{\imath}vas$, Sk. $Fo\hat{\imath}vas$; $u\bar{\imath}num$ (wine), i.e. ueinom, Goth. vein, Gk. $Fo\hat{\imath}vos$; clearly $\bar{\imath}d$ -us, eid-us (a fixed day in the month, origly. the day on which the moon shines, the bright day; Corss. Krit. Beitr. 261), \sqrt{id} , origl. and Sk. \sqrt{idh} (vid. sub. ai, ae).

Deus (god) is weakened fr. *dēus, *dēuos, *deiuos, and is thus a parallel-fm. to $d\bar{\imath}uos$, to which $deiu\bar{\imath}nus$ points; so eo (go) is clearly for *eo, *eyo, f.f. *aiy-ami for *aiami, with splitting up of $ext{i}$ into $ext{i}$ $ext{i}$ e

In word-formative elements, \tilde{e} beside ei, \tilde{i} , is common, later generally the rule, e.g. omneis, omnes, omnes, etc.

ai, ae, occur here and there as in Gk., e.g. aid-e(m), aed-es (house, hearth), aid-īlis (overseer of buildings), aes-tās (summer heat) for *aed-tas, cf. Gk. aǐd- ω , aǐd-ovoa, aid- η p, Sk. \sqrt{idh} (kindle); ae-uo-m, old ai-uo-m (aye, long time) (except in gend.) = Sk. $\dot{e}v$ -a-s (course), cf. ai-F $\dot{\omega}v$, \sqrt{i} (go), origl. suff. va; maes-tus (sorrowful), maer-eo (grieve, intr.) beside mis-er (wretched); aem-ulus (vying) beside im-itari (imitate); laeuos (left-), cf. λ ai-F $\dot{o}s$; scaeuos (left-), cf. σ kai-F $\dot{o}s$; caecus (blind), cf. Goth. haihs (one-eyed, blind).

Second step is oi, oe, ū; e.g. foid-ere, n. *foid-os (foed-us, § 35. treaty), \sqrt{fid} ; ūber (fruitful), early Lat. *oib-ri-s, f.f. ūidh-ri-s, cf. Sk. ēdh-atē (he grows), hence \sqrt{idh} , ūber (neut. subst. fruitfulness), early Lat. perh. *oib-es, f.f. ūidh-as, fr. same root; *oinos, oino(m), occurs, oenus, ūnus (one), cf. Goth. ains; comoinem, comūnem (common, acc.), cf. Goth. gamains; so we find loidos, loedos, lūdus (game); oitier, oetier, ūtier (use), etc.

Note.—For oe we find ē written by mistake (cf. Fleckeisen, 5th Art. aus einem Hilfsbüchlein für Lat. Rechtschreibung, Frankf. 1861, p. 22), e.g. ob-ēdire for ob-oedire, cf. audire, n-ēnum=n-oenum (non).

3. u-scale.

§ 36.

Very much obliterated in Lat. Exx. are very rare: we can bring forward only luc-erna (lamp), Gk. νλυκ, Sk. ruk, f.f. ruk, beside Leuc-esie (Carm. Sal.), Louc-ina (nom. pr.), lucem (light, acc.), lū(c)-men (light), lou(c)-men; duc-em (leader) beside douc-ere, duc-ere (lead); rub-er (red), f.f. rudh-ra-s, beside rūf-us (red), f.f. rāudh-as; pro-nūb-us (marriage-making), in-nūb-us (unwedded), beside nūb-o (marry—of the woman); rūp-es (rock, cliff) fr. νrup, in ru-m-p-o (break); trūd-o (thrust) beside trūd-i-s (thrusting-pole).

The fund. vowel u, e.g. in rup-tus (broken), ru-m-p-o (break), cf. Sk. lu-m-p- $\acute{a}mi$, $\surd lup$, origh. $\surd rup$; us-tu-s (burnt), $\surd us$, Sk. $\surd u\check{s}$; tu-tud-i fr. pres. tu-n-d-o (thump), cf. Sk. tud- $\acute{a}mi$, $\surd tud$; rub-er (red), for "ruf-er, "ruf-ro-s, $\surd ruf$ = $\acute{p}v\theta$, Sk. and origh. $\surd rudh$; iug-um (yoke)= $\surd v\gamma$ - $\acute{o}v$, Sk. yug- $\acute{a}m$, $\surd yug$; fu-i (was), fu-turus (about to be), cf. ϕv - $\tau\acute{o}v$, origh. and Sk. $\surd bhu$ (in Sk. lengthened $bh\bar{u}$). In stem-form. (not in stem-formative particles), e.g. pec-u (cattle, pl. pecu-a), cf. Goth. faihu, O.H.G. vihu, Sk. $pag\acute{u}$ -s.

This genuine u was also weakened to i (ü) [like that which arose from a, cf. § 32], e.g. lub-et, lib-et (it pleases), Sk. and origh. √lubh (desire), Goth. lub (in lub-ō, beloved, liub-s, love; ga-laubs, dear); cli-ens (hearer), √clu, √κλυ, origh. kru (hear);

§ 36. *manu-bus, and hence mani-bus (manu-s, hand), u is noticeably preserved in many cases; fructi-fer, corni-ger, fr. *fructu-fer, *cornu-ger (fruit-bearing, horn-carrying).

Note 1.—Genuine u does not change to o except in fö-re fr.

fŭ-se, √tu.

Note 2.— \bar{u} as lengthening from \bar{u} is prob. not to be separated fr. $\bar{u} = ou$, 1st and 2... superforms of u. In $t\bar{u}$ (thou), we have an unoright lengthening, f.f. is $t\bar{u}$, for in Sk. tv-am, Gk. $\tau\dot{v}$, $\sigma\dot{v}$, Goth. thv, Sch. ty, there is no step-forms. We cannot decide between lengthening and step-formation in cases like $s\bar{u}$ -s (boar), \dot{v} -s, O.H.G. $s\bar{u}$; $m\bar{u}s$ (mouse), $\mu\dot{v}$ -s, O.H.G. $m\bar{u}s$, etc., where Gk. vouches for the hypothesis of the lengthening.

The first step-formn. (acc. to analogy of all Indo-Eur. langg.)—sounded of course precisely as in Gk.—was eu; but it was lost very early, since the only remaining instance of this archaic step-formn. is in Leuc-esius (n. prop.), cf. λευκ-ός (white), also Loucetius, Lucetius; f.f. is prob. *Leuc-ent-ios, a further formn. fr. a particp. st. *leuc-ent- (as Prudent-ius fr. prudent-), of a pres. *leuc-o, \sqrt{luc} , as $\phi \epsilon \dot{\nu} \gamma - \omega$ fr. $\sqrt{\phi v \gamma}$. In consequence of the soundlaw mentioned § 33, (e before u, v, changed to o), there will arise fr. eu an ou, coinciding with 2nd step, and later becoming Hence from $d\bar{u}c$ -o (lead), douco, we must infer an older *deuco, f.f. dauk-āmi, \sqrt{duk} (because pres. stt. of this kind were formed by the 1st step); $\bar{u}ro$ (burn), *ouso for *euso= $\epsilon \ddot{v}$ - ω for * $\epsilon \dot{v}\sigma$ - ω , Sk. $\dot{o}\dot{s}$ - $-\bar{a}mi$, f.f. aus- $\bar{a}mi$, \sqrt{us} ; in roots which end in u we find ov for *ev= eu, e.g. *plou-ont, thence pluu-ont, plu-ont (they rain); *plou-ont, however, is for *pleu-onti, cf. Gk. $\pi\lambda \acute{\epsilon} F$ -ovti ($\pi\lambda \acute{\epsilon}$ -ovoi), f.f. play-anti; so flu-ont=flou-ont, fr. *fleu-onti, and other similar pres. fms.; ious, iour-is (iūs, iūr-is, right), is for *iou-os, *iou-es-is. and formed like *gen-os, *gen-es-is (gen-us, gen-eris), fr. \(\square\)iu (iungere), by the first step, as is usual in this kind of noun st., *iou-os is thus for *ieu-os, formed fr. \(\si\)iu like κλέΓ-ος fr. \(\kappa\)κλυ. and corresponding Sk. cráv-as fr. \sqrt{cru} ; iūs, iūr-is (broth)= *iou-s, *iour-is, *iou-os, *iou-es-os, *ieu-os, *ieu-es-os, f.f. yav-as. yav-as-as, fr. another \sqrt{yu} , Gk. $\sqrt{\xi v}$ (in $\xi v - \mu \eta$, yeast), cf. Scl.

iu-cha (broth); $p\bar{u}s$ ($p\bar{u}r$ -is, matter)=*pous, *pou-os, *peu-os, f.f. § 36. pav-as, Sk. and origl. \sqrt{pu} (be foul), cf. Goth. fu-ls, perh. $f\bar{u}$ -ls, O.H.G. $f\bar{u}$ -l, N.H.G. fau-l, f.f. pau-ra-s, Lith. $p\dot{u}$ -ti (be foul). Also Iou-em=Diouem (acc. n. pr.) must be referred to *dyev-em, and clearly $I\bar{u}$ -piter stands for *dy \bar{u} -piter, *dyou-piter, and the latter for *dyeu-piter, st. dyeu-= ζev -, which is merely a sound-variation fr. dyeu, \sqrt{dyu} =div (shine, as noun-st. 'heaven' and 'god of heaven'; Sk. nom. $dy\bar{a}$ -us (2nd step) does not correspond with the Lat.): here the 1st step is much commoner than the 2nd, so that Lat. \bar{u} must generally be referred hither as=Old-Lat. ou.

Note.—neu, seu=neue, *seue, do not belong here strictly, any more than ne-uter, ne-utiquam (also nutiquam like nullus).

au, as in Gk., is a first step long since unused, and in Lat. the only diphth. retained, and not yet given up (it occurs still in Ital. and in more isolated cases in other Latin lang.), although even in early times it was weakened, esp. in popular dialects, to the sound \bar{o} ; further au is contr. into \bar{u} (prob. through intermed. \bar{o}), e.g. raud-us, $r\bar{o}d$ -us, $r\bar{u}d$ -us (crumb of earth), \sqrt{rud} , elsewh. rub, ruf, \sqrt{rudh} (be red). Exx. of au: aur- $\bar{o}ra$ (dawn), f.f. prob. aus- $\bar{a}s\bar{a}$, \sqrt{us} in $\bar{u}r$ -o, us-tus, cf. Sk. st. $u\bar{s}$ - $a\bar{s}$ -(aurora), without step-formn. in root and suff. (the latter occurs in certain cases only); aug-eo (I increase), cf. $a\bar{v}\xi\omega$, $a\bar{v}\xi\acute{a}v\omega$, prob. fr. * $a\dot{v}\gamma$ - $\sigma\omega$, * $a\dot{v}\gamma$ - $\sigma av\omega$, Lith. $\acute{a}ug$ -u (I wax), \sqrt{ug} ; the above-mentioned raud-us (neut. pl. raud-era), \sqrt{rud} , Sk. $\sqrt{rud}h$, Gk. $\sqrt{\dot{\rho}}v\theta$, etc.

Note.—au can also arise through a secondary process, e.g. nauta (sailor), auceps (bird-catcher), gaudeo (am glad), fr. nāu-i-ta, *au-i-ceps, *yāu-i-deo, etc.

The second step of u, viz. old Lat. ou, later \bar{u} , is equally wanting with the 1st step, and it is only by the aid of the cognate langs. that we can detect whether ou, \bar{u} , represent origh. au or $\bar{a}u$: the latter is certain only in rare instances, e.g. $r\bar{u}f$ -us (red)=Kelt. $r\dot{u}ad$, Goth. raud-s, f.f. $r\ddot{u}udh$ -as; clearly

§ 36. here belongs *ūber* (udder), on acct. of Gk. οῦθαρ, f.f. of both *āudhar*, though Sk. *ūdhas*, O.H.G *ūtar* (H.G. *euter*), show other degrees of the scale: perh. also *lūc-em*, *Louc-ina*, *lū(c)men*, \sqrt{luk} , origl. \sqrt{ruk} .

Note.—ū, ou, are here and there secondary products through falling-out of sounds, as e.g. *councti, cuncti (all together), fr. co-iuncti; noundinum (S.C. de Bacc.), nūndinum, fr. *nouendinum, cf. nundinae (period of 9 days), prūdens fr. pro-uidens.

§ 37. Vowel Sound-laws.

Accurate statement of the extraordinarily variable vowel sound-laws of the Lat. must be left to the special-grammar of the lang.: a general view only can be given here.

In case of vowels coming into contact with one another, hiatus is often obviated by means of contraction. This occurs regularly, when the first vowel is a, thus amo (1 sing.) fr. *amao, amas (2 sing.), fr. *amais, f.f. of termn. -ayāmi, -ayasi; amarunt (3 pl. pf.) fr. ama(u)erunt; equae and equā fr. equāi (d. sing); diē, fidē, fr. diēi, fidēi, etc. Other exx. are found in sīs fr. siēs, sīt, earlier seit, fr. siēt, f.f. syāt; tibī, tibei, fr. tibie, f.f. of termn. -bhya(m); so too in $u\bar{o}beis$, $u\bar{o}b\bar{i}s$, f.f. of termn. bhya (m)s; senatūs (gen. sing.) fr. sena-tuis (-tuos), senatu (d. sing.) fr. senatui, cogo fr. *co-igo, equo (d. sing.) fr. equoi, etc. Both vowels, however, remain in many cases, esp. u and i with its kindred e make no hiatus with follg. vowels, e.g. fui, lues, fluunt (fluont); the noun-termns. -io, -ia, -ies; fieri, tenuia (tenvia), eunt, eo, meae. In combination even co-actus, de-esse, co-optare. but also medially, boo (boare), etc. Hiatus in the middle of a word is almost always brought about by loss of consonn., e.g. fluunt fr. flouont, boo fr. bouo, etc. The laws of hiatus in Lat. need a further and more accurate settlement.

§ 38. Assimilation exercises a wide-spread influence; vowel assimilates vowel, both forwards and backwards, and also in case of indirect contact of vowels (passing over consonn.), causing both

partial and complete similarity; and the same effects are produced § 38. by consonants upon vowels (relationship between particular consonantal- and vowel-sounds). And, moreover, by this means immediate contact betw. like vowels is avoided, and dissimilation takes place.

Thus aureolus, gladiolus, even vinolentus, etc., stand for *aureulus, *gladiulus, *vinulentus, fr. aureu-s, gladiu-s, uinu-m, cf. longulus, turbulentus; duritie-s beside duriti-a, etc.; cf. $si\bar{e}m$, $si\bar{e}s$, $si\bar{e}t$, with Sk. $sy\bar{a}m$, $sy\bar{a}s$, $sy\bar{a}t$. In these and similar cases we see an assimilating influence of foregoing vowels on those follg.; consequently o is nearer to e and i than u, and e more akin to i than a.

A reflexive assimiln. passing over cons. occurs, e.g. in exul but exil-ium, facul-tas but facil-is, sta-bulum but sta-bilis; mihi, tibi, but Umbr. mehe, tefe; bene but bonus.

For relation between o and u, vide § 33, 2; u has a special affinity for labials, and above all m and l. Hence from weakened a we get, not i, but u, in cases like oc-cup-o, au-cup-ium, bes. capere, con-tubernium (chummage) beside tab-erna (hut), op-tum-us (later only, optimus), etc.; bef. l older o became u, e.g. poculum fr. pocolom, consul fr. cosol, epistula fr. emicotom; through this weakening of a, before l+cons. we find u, not i or e (the regular representative of i before 2 consonn.), e.g. salsus, insulsus, sepelio, sepultus, etc.; further, u has remained before n+cons., e.g. ferunt, homunculus (cf. supr. § 32). Throughout, it represents here too an earlier o, wh. maintained itself intact in the popular diall., as later inserr. and Ital. (e.g. sepoltura as early as 558 a.d., cf. Ital. sepolcro, colomna, Ital. colonna) prove.

Even origl. *i*—not weakened fr. *a*—gives way to *u* in cases like *testu-monium* (witness) beside *testi-s*; *carnu-fex* (flayer) beside st. *carni*- (n. *caro*, flesh), and the like; where, nevertheless, the analogy of the commoner cases may have had some influence.

e is retained by preference in final syll. bef. nasals, e.g. septem, of. $\dot{\epsilon}\pi\tau\dot{a}$, $n\ddot{o}men$, Sk. $n\ddot{a}man$ -, cornicen, \sqrt{can} , ouem fr. oui-m, and

§ 38. so in most i-stems; in acc. sing. of a-stem nevertheless we find o, u (nouo-m, nouu-m); but above all e is found bef. r, e.g. camera fr. καμάρα, operis beside nominis; stetĕrunt for *steti-sonti, cf. stetis-ti; ueher-is fr. uehis-is, cf. uehit-ur; peperi for *pepiri, fr. pario, like cecini fr. cano; affero, not *af-fir-o, wh. we might look for acc. to analogy, comparing such cases as colligo fr. lego.

r has also a preference for o (=u) preceding, e.g. fo-re, fo-rem, fr. \sqrt{fu} (fu-turus); Lat. ancora fr. Gk. $\alpha \gamma \kappa \bar{\nu} \rho \alpha$; but robur, ebur with u, perh. on account of preceding b.

Further, e occurs bef. two or more consonn. interchangeably with i bef. one cons., e.g. iudex but iudicis; eques-ter for *equet-ter, *equit-ter but equit-em; asellus fr. *asin(u) lus, cf. asinus; consecro, abreptus, etc. (but it remains i bef. ng in attingo, infringo and the like).

The sound-combinations ent, end, and unt, und, are weakened forms, e.g. fer-ent-cm beside e-unt-em fr. *e-ont-em, where the earlier sound o, u, has been kept in consequence of dissimiln., beside e, uolunt-arius; faciendus and faciundus, both fr. *faciondus, remain in 'sacris faciundis,' 'iure dicundo,' and the like. After u, e is invariable: tu-endus, restitu-endus. a is throughout the origl. vowel in these cases.

i has a special affinity to n and dentals, and is the commonest weakening fr. a, e.g. $\mu\eta\chi\alpha\nu\dot{\eta}$ but $m\bar{a}china$; nominis, hominis, eecini, fr. stems $gn\bar{a}man$ -, ghaman-, ka-kan-, etc.

By dissimiln. is prevented the combn. of two like vowels, e.g. ueri-tas fr. ueru-s, but pie-tas (piu-s), ebrie-tas (ebriu-s), etc., not *pii-tas, etc.; equit-is (eques) but abiĕt-is, ariĕt-is, pariet-is (abies, aries, paries); diuinus, diuo-s, but aliēnus (aliu-s); lēui-gare (lēuis) but uarie-gare (uariu-s), etc. The first vowel is changed in mēio fr. *mig-yo, *mīio: ei, dei, are older and more correct than ii, dii, etc. Through dissimiln. o kept ground longer after u, v, e.g. equos, equom, nouom, mortuos, etc.

§ 39. Through loss of consonants vowel-change takes place, viz.

1. Compensatory lengthening; 2. Contraction.

- 1. Compensatory lengthening, e.g. pēs, ariēs=*pēd-s, § 39. ariēt-s; a regular shortening has here taken place later (§ 41), e.g. pedēs fr. pedēs=*pedēt-s, patēr fr. patēr=*patēr-s; ferēns =*ferēnt-s (cf. φέρων=φεροντ-ς); sāl (salt)=săl-s (gen. săl-is), cf. äλς, etc.; esp. often through loss of nasal bef. s, e.g. acc. pl. of a-st. -ōs (nou-ōs)=-ons (f.f. nav-ans); in compar. -iōr, -iōrem, fr. -yans, -yansam, etc.; further, pōno (place)=*pos-no (cf. pos-ui), quini (by fives)=quinoni, exāmen (swarm)=exāg-men (āgo); thus g falls out esp. bef. y, e.g. māior (greater)=*māg-ior, cf. mag-nus (great), āio (say)=*ăg-io (cf. ad-āg-ium, proverb), mēio (urino) =*mīio=*mīgyo, etc.
- 2. Contraction (vid. supr. § 37), e.g. amārunt, amāsti, nōrunt, amō (fr. *amao), docēs, audīs (fr. *doce-is, *audi-is); nouīs=*nouo-is, *noua-is fr. *nouo-bios, *noua-bios (v. Decl.), etc. In redupl. perff. this case is very clear, e.g. fēci fr. *fēfici, cf. cecini, likew. iēci, frēgi, etc.

Note.—Cases like inuītare (invite)=*uicitare, \(\sqrt{u\omega}c; \) conuītium (wrangle)=*conuīcitium \(\sqrt{u\omega}c; \) suspītio (suspicion)=*suspicitio, etc. (on the last ex. cf. Fleckeisen, Rhein Museum, viii. 227; on the other side Corssen, Kritik. Beitr. s. 12 sqq., who writes suspīcio, conuīcium, and derives them accordingly, but assigns inuītare to an ambig. Sk. \(\sqrt{vi} \)). Cf. § 77, 1. a. sub fin.

Weakening (lightening of vowels by change of quality § 40. with and without shortening) is very common in Lat., and throughout not exclusively confined to unaccentuate sylls., whence probably too the analogy of this weakening arose (cf. supr. § 32, 2; on the question cf. G. Curtius, das dreisilbengesezt der Gk. u. Lat. betonung, in Kuhn's Zeitschrift, ix. 321 sqq.). Esp. regular is the occurrence of weakg. in sylls. of wordformation; in composition and in reduplication, but also in root sylls. Nevertheless, that the weakening did not invariably occur in the second member of a compound is proved by exx. such as com-paro, per-agro, per-actus, etc. (Corss. Kuhn's Zeitschr. xi. 370). Through weakening

§ 40. a becomes e; fall-o fe-fell-i, parc-o pe-perc-i, fac-tus per-fec-tus, etc.

a becomes u; cap-io, oc-cup-o; here belongs the u of the unaccentuated final sylls., e.g. da-tu-s f.f. da-ta-s; early Lat. oper-us, Sk. and f.f. ápas-as, etc.: the change fr. a to u is through intermed. o.

a becomes i; e.g. fac-io con-fic-io, pa-ter Iupi-ter, cad-o, ce-cid-i, can-o, ce-cin-i, etc.; the change must be through intermed. e. e occurs for i acc. to the above-stated rule, in cases like tubi-cen, pe-per-i, oper-is for *opis-is (opos-os f.f. apas-as), etc. Cf. § 38.

ā becomes ē; hāl-o an-hēl-o.

ae becomes i; quaer-o 'n-quir-o, caed-o ce-cid-i con-cid-o, aequos in-iquos, etc.

au becomes \bar{o} , \bar{u} ; caus-a ac-c \bar{u} s-o, fauc-es suf-f \bar{o} c-o, plaud-o ex-pl \bar{o} ul-o, etc.

Even long vowels and diphths. became i (\check{e}) by more marked shortening, e.g. $gn\bar{o}$ -tus co- $gn\check{i}$ -tus, iouro ($i\check{u}ro$), pe- $i\check{e}ro$, de- $i\check{e}ro$ (- $y\check{e}ro$ for *-yiro, with e for i bef. r, cf. § 38).

Before secondary suffixes, and as 1st member of compds., stems in o, u, weaken their stem-terms. before consonn. to i, e.g. duri-tas, duri-ties, st. duro- (durus); corni-culum, corni-cen, corni-ger, st. cornu-, etc.

Bef. vowels u remains, e.g. fructu-arius fructu-osus, st. fructu-; it also keeps ground bef. labials, e.g. locu-ples, quadru-pes, quadru-plex.

§ 41. Also shortening of vowels in unacc. final sylls. prevails very widely.

Thus \check{a} in fem. is origl. \bar{a} (Sk. \bar{a} , η), hence kept long sometimes in earlier Latin; \check{e} , in abl. sing. of *i*-st. and of consonstems, following their analogy, is origl. -ait, thence -aid, -eid, -ēd, \bar{i} d, later -ei, -ē, -ē̄ (so patrē, tit. Scip. Barb.); \bar{e} of the vb. sometimes appears short, e.g. cauē, iubē; \bar{i} in mihī, tibī, ubī, etc., is fr. earlier \bar{i} , ei through shortening, mihei, tibei, ubei, occur not seldom: final \bar{o} always represents origl. \bar{o} , e.g. hom \bar{o} =*homon-s;

 $ag\bar{o}$ cf. ἄγω, f.f. $ag-\bar{a}mi$, next step $ag-\bar{a}$ by loss of mi; $eg\bar{o}$ cf. § 41. έγώ; in these cases the nasal may have caused the dulling of \bar{a} to \bar{o} ; duo, ambo, octo, cf. δύω, $\ddot{a}\mu\phi\omega$, $\ddot{o}\kappa\tau\dot{\omega}$.

Shortening occurs regularly bef. final t; $am\bar{a}$ -t for $-\bar{a}t$ =-ait, -aat fr. -ayati, cf. $am\bar{a}$ -mus; so -et, -it, in the derived vbs. and in opt. fr. $-\bar{e}t$, $-\bar{e}t$, $-\bar{e}t$, earlier -eit: also -it in pf. was sounded -eit in earlier times, and the like.

Similarly bef. other consonn., e.g. -is of opt. (feceris) for and beside - $\bar{\imath}s$ (feceris); pa-ter fr. pa-ter (cf. πa - $\tau \acute{\eta} \rho$) for *pa-ters; - $\bar{o}r$ in nom. sing. fr. - $\bar{o}r$, e.g. censor (tit. Scip.) fr. *cens-tor-s, and many more such.

Evaporation in unacc. sylls. brings us to total loss, final and § 42. medial loss of vowels (§ 32).

Final loss of vowels is partly of late date only, e.g. animal for and beside animale, dic for and bes. dice, hoc for and bes. hoce, ut for and bes. uti; partly older, e.g. uchis for *uehisi, f.f. vaghasi; est, uehit, for *esti, *uehiti, f.f. asti, vaghati (tremonti has remained, Bergk. index lect. Marburg, 1847-8), etc.

Medial loss of weakly-accented vowels is esp. common in Lat., and occurs (1.) bef. vowels, e.g. minor, minus, for *minior, *minius; nullus for ne-ullus, etc.; cases can be produced where no contraction has taken place, e.g. un-ŏculus (uno-oculus), sem-ănimus (semi-animus), nŭtiquam (ne-utiquam). (2.) bef. consonn., the commonest case, e.g. alumnus, uertumnus, for *alumenus, *uertumenus, suff.=Gk. -µevo-, Sk. -māna-; stella for *sterla fr. *sterula; puella for *puerla fr. *puerula; misellus for *miserlus fr. *miserulus; patrem for *pater-em, st. pater-; rettuli fr. *re-tetuli; reppuli fr. *re-pepuli; repperi fr. *re-peperi, and so on. Thus the loss of medial vowels is chiefly approved betw. like consonn. (as in Mid.H.G., Zeitschr. x. 160). Unacc. i may altogether disappear, e.g. dixti fr. dixisti, ualde fr. ualide, gaudeo fr. *gauideo (cf. gauisus), etc.

Of special importance in treatment of declension is the medial loss of origl. a and i, i.e. o or u and i before the s of nom. sing.

§ 42. Thus arises puer, etc., fr. *puers, which comes fr. puero-s, puerus (in existence), uir fr. *uirs, *uiros, acer (§ 43) fr. acris, etc. This is noticeably regular after r with short syll. precedg.; hence quatuor stands for *quatuors, *quatuores, cf. τέσσαρες, Sk. katrárus; after the vowel had been lost, the s also fell off from the r. Such forms as famul (Enn. Ann.) are obsol.; it stands for *famuls fr. famulos, damnas for *damnats fr. damnatos; alis for alios (vouched for more than once); Sallustis, Clodis (Inserr.) for Sallustios, Clodios, etc.; alid for *aliod, aliud.

Loss of i in i-st. is remarkably common, whereby its Lat. nom. has become thoroughly confused with that of consonstems, thus e.g. primas for older primatis, gens fr. *gents and this fr. *gen-ti-s, mors for *morts fr. *mor-ti-s, fr. \sqrt{gen} , origl. gan (gignere), and \sqrt{mor} , origl. mar (mori), f.f. therefore gan-ti-s, mar-ti-s, and the like. Further acer for and bes. acris, uigil fr. uigilis, etc.

Note.—The occasional omission of vowels in the text of Inserr. which could not take place in the spoken lang. (e.g. dcumius, fect, uixt for Decumius, fecit, uixit) has been pointed out by Ritschl. (Rhein. Mus. n. Folge xvi. p. 601 sqq.; xvii. p. 144 sqq.).

§ 43. Insertion of a helping-vowel likewise sometimes occurs in Lat., e.g. s-u-m fr. *es-mi, *es-u-mi, origl. as-mi; s-u-mus fr. *es-mus, *es-u-mus, origl. as-masi; uol-u-mus fr. *uol-mus, f.f. var-masi, cf. uol-t, f.f. var-ti; teg-u-mentum (hence teg-i-mentum) bes. teg-mentum, and the like belong likewise here; u is here the helping-vowel on account of m following, cf. drach-u-ma (Plaut.) fr. δραχ-μή, since in general a similar vowel-insertion was admitted in foreign words, as e.g. tech-i-na (Plaut.) from τέχνη, etc.

Bef. r, e=i (§ 38), e.g. um-e-rus (shoulder) bes. Sk. $\acute{a}sa$ -s for *amsa-s, rub-e-r (red) for *rubr fr. *rubrs, *rub-ro- $s=\acute{e}$ - $\rho v\theta$ - $\rho \acute{o}$ -s, Sk. also with helping-vowel rudh-i- $r\acute{a}$ -s, origi. rudh-ra-s; gener (son-in-law) for *gen-r(o-s), cf. $\gamma a\mu \beta \rho \acute{o}s$ for * $\gamma a\mu$ - $\rho \acute{o}$ -s; ager (field) for *ag-r(o-s), Gk. $\acute{a}\gamma$ - $\rho \acute{o}$ -s; caper (he-goat) for *cap-r(o-s), a form like $\kappa \acute{a}\pi$ - ρ -os (boar), etc.

The common helping-vowel i may generally be regarded as § 43. a weakening of an older u or e: it occurs rather irregularly (cf. Ritschl. Rh. M. n. F. 1862, 607 sqq.) in e.g. mor-i-turus bes. mor-tuos, or-i-turus bes. or-tus, etc. After the analogy of consonl. roots this i is found also in the case of roots ending in a vowel, e.g. ru-i-turus, di-ru-i-tus bes. diru-tus, tu-i-tus bes. tu-tus, etc.

B. CONSONANTS.

§ 44. CONSONANTS OF THE INDO-EUROPEAN ORIGINAL LANGUAGE.

The consonn. in Indo-Eur. are specially distinguished from the vowels, setting aside their physiological conditions, in that they are fixed and invariable in roots (we may pass over the changes which they undergo in consequence of sound-laws that are always secondary), but cannot, like vowels, raise themselves in a definite scale of gradation. Whilst the nine oright vowelsounds of the Indo-Eur. can be reduced to three fundamental vowels, the consonn. are collectively independent of one another. Whilst the vowels by means of their step-formation according to meaning thereby serve for the expression of relation, consonn. are merely elements of expression of meaning; no relationship is expressed in Indo-Eur. by the use of root-consonn.

The Indo-Eur. origl. lang. has fifteen consonn., which in § 1 are classed according to their physiological conditions, viz. three momentary mutes, three mom. sonants, three mom. son. aspirates, three spirants, and three so-called liquids, i.e. two nasals and r. The existence of b (mom. son. labial) in the origl. lang. cannot be authenticated by any perfectly certain example: but it is highly probable that it did exist, as the origl. element of the frequent aspirate bh. The number of origl. consonn. is also much greater than that of the vowels (prob. 3×3 , but certainly 2×3 existed).

The aspirates, as double sounds, seem to be foreign to the most original condition of the lang., and to have developed only in later times: but they certainly existed before the first splitting-up of the original lang., for they are found in the three divisions of the Indo-Eur., or at least they can be detected;

that is, they occur in Aryan and in S.-European; in N.-Euro-§ 44. pean likewise they must once have existed: the Teutonic has them, it is true, like the other northern lange, changed to sonants, but the origl. sonants are distinguished from them by becoming tenues.

Consonantal sound-laws had not arisen so early as the origl. lang.; consonn. can be placed anywhere, and in any combination which the organism of the lang. required, because these combinations (e.g. $v\bar{a}k$ -bhis inst. pl. fr. st. $v\bar{a}k$, voice) were not yet so close that those consonn. which are brought together by word-formation exercised any influence on one another (thus e.g. in $v\bar{a}k$ -bhis the influence of bh on k produces as early as Sk. the fm. $v\bar{a}g$ -bhis: k has here changed bef. sonant bh into its corresponding son. g: on the improbability of origl. interchange of i, u, with y, v, cf. § 3).

EXAMPLES.

§ 45.

Momentary mute unaspirated consonants.

- 1. k. ka-s (who), ka (-que, and), katrūr-as (four), kankan (five), kard (heart), \sqrt{kak} (cook), \sqrt{ka} and ak (be sharp, quick), \sqrt{ki} (lie), \sqrt{kru} (hear), kru-ta-s (heard), kvan-s (dog), \sqrt{skid} (cut), \sqrt{vak} (speak), \sqrt{dak} (bite), \sqrt{dik} (show), \sqrt{ruk} (light), ak-man-s (stone, heaven), dakan (ten), varka-s (wolf); sf. -ka, etc.
- 2. t. ta-t (that), tu (thou), \sqrt{ta} , tan (stretch), tri (three), \sqrt{sta} (stand), stag (cover), \sqrt{pat} (fly, fall), \sqrt{prat} (broad), \sqrt{vart} (turn); common in stem- and word-formative particles, e.g. sf. -ta (pf. pt. pass.), bhara-ti (fer-t), ragh-is-ta-s (ελάχιστος), etc.
- 3. p. \sqrt{pa} (drink), \sqrt{pa} (protect, rule), thence pa-ti-s (lord) and pa-tar-s (father), par (fill), hence paru-s (many) and par-na-s (full), \sqrt{pad} (go) as noun-st. n. sing. pad-s (foot), pratu-s ($\pi\lambda a\tau \dot{v}-s$), \sqrt{pru} (flow), prav-ati (he flows), \sqrt{spak} (see, look), \sqrt{sarp} (creep, serpere), \sqrt{tap} (burn, heat), \sqrt{svap} (sleep) thence svap-na-s (sleep, n.), etc.

§ 46. Momentary sonant unaspirated consonants.

- 1. g. \sqrt{ga} (go), 1 sing. pres. ga-ga-mi, \sqrt{ga} , gan (be born), \sqrt{gan} (know), \sqrt{ag} (agere), ag-ni-s (ig-ni-s), \sqrt{grabh} (grasp), \sqrt{yu} -g (iungere), thence yug-am (yoke, iug-um), etc.
- 2. d. \sqrt{da} (dare), 1 sing. pres. $da-d\bar{a}-mi$, \sqrt{dak} (bite), \sqrt{dam} (tame, domare), dama-s (domus), \sqrt{dik} (show), \sqrt{div} (shine), st. dva^- (two), \sqrt{ad} (eat), \sqrt{sad} (sit), \sqrt{vid} (uidere), 1 sing. pres. raid-mi, etc.
 - 3. b. I know of no certain example of this sound.

Note.—The Teutonic and Gk. forms of those words that show b in the Aryan and S.-European langg. point partly to bh, e.g. Sk. \(\sqrt{bandh}\) (bind), but Goth. band, f.f. therefore bhandh, Gk. $\sqrt{\pi \epsilon \nu \theta}$ for * $\phi \epsilon \nu \theta$, $\pi \epsilon \nu \theta$ - $\epsilon \rho \phi$ s (affinis), $\pi \epsilon i \sigma \mu a$ for * $\pi \epsilon \nu \theta$ - μa (cable); Sk. bāhús (fore-arm), Gk. πηχυς for *φηχυς, N.-Eur. bōgr, O.H.G. puoc, origl. initial-sound bh; Sk. \(\sqrt{budh} \) (know), Gk. $\sqrt{\pi v \theta}$ ($\pi v v \zeta \acute{a} v o \mu a \iota$) for * $\phi v \theta$, Goth. bud, not *pud, as might be expected fr origl. b (moreover the Goth. root, notwithstanding the difference of function, is identical with budh, $\pi \nu \theta$); if b were origh, the Gk. fms. would be $*\beta e \nu \theta$, $*\beta \eta \chi \nu s$, $*\beta \nu \theta$. These three roots have a final asp., which was the effect of the disappearance of an origh. asp. at the beginning in Aryan and Gk. (this conjecture has been ably confirmed by Grassmann, Zeitschr. xii. 110). In other instt. we lack decisive representatives in N.-European, e.g. βραχύς, breuis, Selav. bruzu; Sk. √lab, lamb [labi, delabi; 3 sing. pres. lámbatē), Lat. lab. (lāb-itur), etc.; κάνναβις (hemp), Norse hanpr, O.Bulg. konoplya, a doubtful and borrowed form. Grassm. Zeitschr. xii. 122 sqq. shows it to be likely that b did not exist in Indo.-Eur., at least at the beginning of a word. Nor have I found any certain exx., ap. Bickell Zeitschr. xiv. 425 sqq., of the origl. existence of lab. son. in Indo.-Eur.

§ 47. Momentary sonant aspirated consonants.

- 1. gh. \sqrt{ghar} , ghra (burn, shine; be green, yellow), ghans-s (m. f. goose), \sqrt{stigh} (step), \sqrt{agh} , angh (be tight), \sqrt{vagh} (uehere), \sqrt{migh} (mingo), \sqrt{righ} (lick), dargha-s (long), etc.
- 2. dh. \sqrt{dha} (set, make), 1 sing. pres. dha-dhāmi, \sqrt{dham} (blow), \sqrt{idh} (burn), \sqrt{rudh} (be, become red) thence rudhra-s and $r\bar{a}udha$ -s (red), madhu (honey, mead), madhya-s (medius), etc.

3. bh. \sqrt{bha} (shine, speak), \sqrt{bhar} (bear, ferre), 1 sing. pres. § 47. bhar-āmi, \sqrt{bhu} (be, become), 1 sing. pres. bhar-āmi, \sqrt{bhug} (bend, flee), $bhr\bar{a}$ -tar-s (brother), \sqrt{grabh} (grasp), nabha-s (neut. nubes), -bhi common case-sf. bh is not very common in st.-formative particles.

Consonantal Prolonged-sounds.

§ 48.

Spirants.

- 1. y. ya-s(which), yuga-m (yoke, iugu-m), \sqrt{yug} , yu (iungere); very common in st.-formative particles, e.g. madh-ya-s (medius), as-yā-t (sit, siēt), $bh\bar{a}ra$ -yā-mi (ϕ opé ω), compar. sf. -yans (prob. also -yant); also in word-formative sff., e.g. -bhyam, -bhyams, sf. of dat. sing. pl. -sya, sf. of gen. sing. masc. of a-st., etc. As a medial sound, y is akin to i, cf. § 3.
- 2. s. \sqrt{sad} (sit), saptan (seven), \sqrt{su} (sow), thence su-nu-s (son), \sqrt{sru} (flow), \sqrt{svid} (sweat), \sqrt{sta} (stand), \sqrt{star} (strew), \sqrt{smar} (remember), \sqrt{as} , pres. as-mi (sum), \sqrt{us} (urere), \sqrt{vas} (dwell, clothe oneself), \sqrt{tars} (torrere, thirst), sra-star-s (sister); common in word-formative partt., e.g. akva-s (equos), nom. sg. masc., $akv\bar{a}-sas$, nom. pl. masc., etc.; also in st. forms, e.g. man-as (mind), etc.
- 3. v. \sqrt{va} (flow), \sqrt{vam} (uomere), \sqrt{vak} (speak), thence $v\bar{a}k$ -s (voice), \sqrt{vagh} (carry, uehere), 1 sing. pres. vagh- $\bar{a}mi$, \sqrt{var} (will), \sqrt{vart} (turn, uertere), aui-s (ouis), \sqrt{vid} (see, know), naua-s (new, nouos); in stem-formative partt., e.g. sf. -vant, Sk. -vant, -vans, Gk. $-F\epsilon\nu\tau$, $-Fo\tau$; rarer in word-formative partt., e.g. loc. pl. -sva, etc.; v as a medial sound is akin to u, vid. § 3.

Nasals. § 49.

1. n. na, an- (negation), \sqrt{nak} (die), thence nak-ti-s (night), nava-s (nouos), $n\bar{a}u$ -s, gen. $n\bar{a}v$ -as (nauis), \sqrt{gan} (be born, know), st. ana- (dem. pron.); n is common in st.-and word-formative partt., e.g. par-na-s (plenus; past part. pass.), ak-man-s (stone), $qn\bar{a}$ -man (name), bhara-nti (ferunt), etc.

- § 49. 2. m. \sqrt{ma} , ma-n (measure, think), thence ma-na-s (mind) and $m\bar{a}$ -tar-s (mother), \sqrt{mar} (mori), \sqrt{smar} (remember), \sqrt{vam} (uomere); common in word-formative partt., e.g. varka-m (acc. sg.), ai-mi, i-masi (eo, imus, 1 sg. pl. pres.), etc.; in st-formative partt., e.g. ykar-ma-s (heat), $yn\bar{a}$ -man (name).
- § 50. r. \sqrt{rak} (shriek), \sqrt{ruk} (light), \sqrt{rik} (liquere), \sqrt{righ} (lick), \sqrt{rudh} (rubere), raghu-s (light, adj.), \sqrt{kru} (hear), \sqrt{bhar} (ferre), \sqrt{ar} (oriri, ire; arare), \sqrt{par} (fill); also in stem-formative partt., e.g. sf. tar, $bhr\bar{a}$ -tar-, $m\bar{a}$ -tar-, and the like, but not in word-formative sff.

§ 51. Sanskrit Consonants.

The physiologically-arranged table of Sk. consonn. is in § 4, where also their pronunciation is considered. Whilst the vowel system of Sk. is generally original, its conson. system is mixed in many ways with later elements. Hence arises that large number of conson.-sounds which is unparalleled in other Indo-Eur. langg.

The origl. sounds in Sk. are the mom. mutes and sonants, and the sonant aspp. all of gutt., dent., and lab. quality, thus, k, t, p; g, d, b (?); gh, dh, bh; further the spirants y, s, v, and also n, m, r. Thus Sk. still possesses the consonn. of the Indo-Eur. origl. lang. entire. All the rest, nineteen in number, have arisen in pure Aryan words from these fifteen origl. consonn., and are to be treated as parallel fms. of them, which have been called forth according to generally perceptible sound-laws, and through the influence of the non-Indo-Eur. langg. spoken by Dravidian (Dekhanic) peoples who were pressed back by the Aryans, and were the earlier inhabitants of the peninsula of Further India, just as neighbouring langg. very often acquire sounds from one another.

The origin of the so-called Sk. lingual mom. consonn. and ling. nasal (t, d, th, dh, n) is due to the latter influence, therefore these sounds are peculiar to Indian, and are unknown in this form to other Indo-Eur. langg. Within the Indian these

sounds gain a still wider sway in the course of the development § 51. of the lang. (in the Prākrits). In Aryan words they are variations of their corresponding dentals.

Further the palat. mom. sounds and their nasal are all unorigl. $(k, \acute{g}, kh, \acute{g}h, \acute{n})$; they have arisen from the corresponding gutturals; and so is the pal. mute spirant g, which is a variation fr. k. The law acc. to which the gutt. partly pass into palatals, partly remain, is hitherto unexplained in particular cases (however, that the change of gutt. into palat. did not occur till late, is implied by the circumstance that the gutt. were reduplicated by means of the corresponding palatals).

Unorigh also are all the tenues aspp. (kh, th, ph; in the case of kh and th the unoriginality is sufficiently clear from the nature of the unasp. sound), whose origin is in known cases mainly caused by foregoing s (kh, kh=sk, sth=st).

Unorigl. also is h, which mostly represents gh, sometimes also other aspp.; s occurs partly acc. to definite sound-laws, partly without perceptible reason for s; s (visarga) is an altogether late variation of s, and confined almost entirely to the termination.

The gutt. and palat. nasals stand only bef. mom. consonn. of their own quality, by which therefore they are conditioned; the nasalisation of the vowels ($\tilde{}$) is likewise dependent on the follg. conson.; it occurs bef. s and h (bef. other consonn. it is often merely a way of writing nasal consonn.).

l bes. *r*, is as in other lange, unorigl.; it obviously increases in the course of the development of Sk.

Besides the sound-laws already explained, Sk. has numerous laws for medial sounds, but esp. for termn. (these laws however do not belong here, but rather to Sk. special grammar), through which the conson.-syst. of Sk. became considerably removed from the basis of the origl. lang.

The representation of gutt. by palatals occurs only bef. vowels and sonant mom. prolonged sounds, not bef. mom. consonn., mute conson.-prolonged-sounds, and in termin. Yet here also

§ 51. occur palatals by no means acc. to fixed sound-laws (e.g. yu-yōg-a iunxi, bes. yōg-a-s iunctio), so that it seems that the lang. has availed itself of the change of gutt. into palatals (originally merely physiological), in order to express differences of relation.

EXAMPLES.

§ 52. Origl. mom. mute unaspirated consonn.

1. Origl. k=Sk. k, k, kh, kh, c, p.

Sk. k=origl. k, e.g. in ka-s (who), \sqrt{kar} (make), k'imi-s (worm), rika-s (wolf), st.-formative sf. -ka, e.g. $dh\bar{a}rmi$ -ka-s (right, fr. $dharm\acute{a}$ -s, duty), etc.

Sk. k= origl. k, ka- $k\acute{a}ra$ (feci), $k\acute{a}$ - is the relic of the most origl. reduplicated supposed \sqrt{kar} ; $k\acute{a}$ (-que, and), $k\acute{a}tv\acute{a}r$ -as (quatuor); \sqrt{ruk} (shine), \sqrt{vak} (speak), whence $v\acute{a}k$ -mi (I speak), $v\acute{a}k$ -am (uocem, speech); k stands for k esp. in \sqrt{termn} , etc.

Note.—Bef. mom. sounds and s the gutt. remains, e.g. $v\acute{a}k$ -ti (he speaks), $v\acute{a}k$ - $\acute{s}i$ (thou speakest, \acute{s} for s after k, v. \S 55, 2), vag- $dh\acute{t}$ (speak), g for k acc. to sound-laws, v. post., etc.

kh and kh occur for origl. k after s; this s more often than not is lost in case of skh, in case of kh always. [For aspirating force of s, v. Kuhn, Zeitschr. iii. p. 321 sqq., 426 sqq. Cf. also Ascoli, Zeitschr. xvi. p. 442 sqq.]

Sk. kh=origl. sk, e.g. khańģa-s (limping), cf. O.H.G. hinch-an, hink-an, √hank, likewise without initial s, but Gk. σκάζω (limp), √σκαγ=Sk. khaģ, f.f. skag; kháģa-s (stirrer), cf. Ang.-Sax. scac-an, Norse skak-a (shake); khak (spring forth), cf. Sclav. skak-ati (spring).

Note.—Most words in kh cannot, or at least not certainly, be reduced to their f.f.

Sk. kh=origl. sk, e.g. \sqrt{khid} (split), Zend ςkid , Lat. scid, f.f. skid; $kh\bar{a}y\dot{a}$ (cover), cf. Gk. $\sigma\kappa\iota\dot{a}$; $g\dot{a}kkh\bar{a}mi$, f.f. $gask\bar{a}mi$ (the redupln. of kh to kkh is regularly written so after a short vowel), and in similarly fmd. pres. stt.

Note.—Bef. t, th, kh becomes s, e.g. prás-tum (t for t after s), § 52. infin., \sqrt{prakh} , f.f. prob. prask, with unorigl. s; cf. Lat. proc (precor), proc (procax), Lith. prasz, Sclav. pros, Germ. frah (frahnan), Sk. prag-ná-s (prayer) for *prak-na-s; but e.g. prak-syáti fut. with k acc. to usual rule.

Sk. p=origl. k occurs only sporadically. This change fr. k to p is seen in all Indo-Eur. langs. except Lat. and Erse; e.g. \sqrt{pak} (cook) for origl. kak. Whilst Lat. \sqrt{coc} preserves both gutt., which evidently arose fr. redupln. of origl. \sqrt{ka} , Gk. has in $\pi \epsilon \pi$ permitted labials to arise in both cases, Sk. pak and Scl. pek have only changed the initial, and Lith. kep contrariwise the final. This ex. is specially full of information, and points unmistakably to the originality of the k, hence the \sqrt{fm} is in these cases kak. Further $p\acute{a}\acute{n}k\acute{a}n$ - (five) for *kankan; \sqrt{sap} (sequi, \sqrt{e} dic) seems to be a bye-fm. of sak (sequi), f.f. sak, so that in this root also two variations fr. origl. k are to be seen; st. ap- (water) must stand bes. Lat. aq-ua, Goth. ah-va (river), for origl. ak-, Lith. $up\acute{e}$ shows likewise the change fr. k to p, f.f. of $up\acute{e}$ is thus *ak- $ya\~{e}$, and the root of this word is probably

§ 52. ak (be swift). [On the change of grigl. k to p, wh. often does not appear till late in certain words, while in others k remains, cf. Beitr. iii. 283 sqq.]

Note.—In the words hrd-, $h\acute{r}d$ -aya-m (heart), h=origl. k, clearly through intermed. kh; origl. k is attested by cord-is, $\kappa a\rho\delta$ -ia $ha\acute{r}rt$ - \bar{o} , Lith. szird-is, Scl. $sr\check{u}d$ -ice. In \sqrt{guh} (hide, 3 sg. pres. $g\acute{u}h$ - $a\acute{t}$, $g\acute{u}h$ - \bar{a} , cairn) g is softened fr. k, f.f. of root therefore is kudh, as Gk. $\kappa e\acute{v}\theta$ - ω (hide), Lat. cus-tos for *cud-tos, Ang.-Sax. hyd-an, prove.

2. Origl. t=Sk. t, th.

Sk. t=origl. t, e.g. ta-t (that), origl. id.; tv-am (thou); \sqrt{ta} , tan, 1 sg. pres. ta- $n\acute{o}mi$ (stretch); $p\acute{a}t$ -ati (3 sg. pres.), \sqrt{pat} (fly, fall); $r\acute{a}rt$ - $at\~{e}$ (3 sg. pres. med), \sqrt{rart} (uertere); sf. of past part. pass., e.g in yuk- $t\acute{a}$ -s (\sqrt{yug} , $yu\acute{g}$, iungere), cf. iunc-tu-s, $\zeta ev\kappa$ - $\tau\acute{o}$ -s; sf. ti of 3 pers. vb., e.g. 3 sg. $bh\acute{a}ra$ -ti, 3 pl. $bh\acute{a}ra$ -nti, cf. $\phi\acute{e}\rho e$ - $(\tau)\iota$, $\phi\acute{e}\rho o$ - $v\tau\iota$, fer-t, feru-nt, Goth. $ba\acute{i}ri$ -th, $ba\acute{i}ra$ -nd, etc.

Note 1.—The unoriginality of th is shown by the fact that it does not appear at the beginning of words (except in the few onomatopoëtic or unused and unorigl. words given in Lexx.).

Note 2.—It appears that after k (in those cases where t though part of a sf. was not felt to be such) this t passed into s; s however in these instances becomes s (v. post. s 55, 2), e.g. rksa-s (bear)=apkto-s, ursu-s for *urctus (cf. post. sub Lat.); st. tdksan- (carpenter)=tekto-

(said), past part. pass.; $v\acute{a}k$ - $t\acute{a}i$, 3 sg. pres. \sqrt{vak} , origh. vak (say, § 52. speak); st. cak- $t\acute{a}r$ - (fut. part.), cak- $t\acute{a}r$ - (past part.), cak- $t\acute{a}r$ - (know, be able), etc.

3. Origl. p = Sk. p, ph.

Sk. p=origl. p, e.g. \sqrt{pa} (drink, protect), whence $p\acute{a}$ -ti-s (lord), pi-t $\acute{a}r$ -n.sg. pi-t \acute{a} (father); \sqrt{par} (fill), 3 sg. pres. pi-par-ti, whence $p\ddot{u}r$ - $n\acute{a}$ -s for *par-na-s (plenus); \sqrt{spa} ç (see, spy) in spaç-a-s (spy), vi-spašt \acute{a} -s (perspicuos) for *vi-spaç-ta-s (past part. pass.); \sqrt{tap} , 3 sg. pres. $t\acute{a}p$ -ati (heat, burn); \sqrt{sarp} , 3 sg. pres. $s\acute{a}rp$ -ati (serpere, ire), etc.

Sk. ph = origl. p, esp. after s, e.g. $sphat\bar{\imath}$ (alum), $sph\bar{\imath}tika$ -s (crystal), cf. German spat; \sqrt{sphur} , 3 sg. pres. sphur- $\dot{\imath}ati$ (shake, in Ved. the root means 'strike, push'), clearly fr. *sphar, cf. $\sigma\pi al\rho\omega$, $\dot{\alpha}$ - $\sigma\pi al\rho\omega$, O.H.G. sporo (spur), spor (track); $ph\dot{e}na$ -s (foam), cf. Scl. $p\dot{e}na$, Lith. $p\dot{e}na$ -s (milk); Lat. $sp\bar{\imath}ma$, provided it comes fr. *spoi-ma, would here also point to sp, in $ph\dot{e}$ -na-s etc. we must therefore assume a root spi, etc. For the rest, ph is not frequent in initio.

The aspiration of tenues after s is not, however, by any means universal, as is shown by the common combinations sk (skánd-ati, scandit), st (str-náti, sternit), sp (sprç-áti, touches).

Origl. mom. sonant unasp. consonn.

§ 53.

1. Origl. $g=Sk. g, \acute{g}(h)$.

Sk. g=origl. g, e.g. \sqrt{ga} (go) in $\acute{g}\acute{a}$ - $g\~{a}$ -ti, $\acute{g}i$ - $g\~{a}$ -ti, 3 sg. pres., ga- $t\acute{a}$ -s (past part. pres.), \acute{a} - $g\~{a}$ -t (3 sg. aor.); $yug\acute{a}$ -m (iugum); grabh, grah (seize), etc.

Note.—Bef. t in many cases we find not the gutt. but an unorigl. s, e.g. $sr\dot{s}-t\dot{a}-s$, past part. pass. $\sqrt{sar\dot{g}}$ (do); $m\ddot{a}r\dot{s}-ti$, 3 sg. pres. $\sqrt{mar\dot{g}}$ (cleanse, wash away). Sometimes also \dot{g} is interchanged with d and t, acc. to the quality of the following sounds.

- § 53. In more cases in Sk. h (=gh) stands where Gk. and the other langs. point to origl. g, so that in Sk. we must assume an unorigl. aspiration, e.g. st. mah-ánt-, i.e. *magh-ant- (big), but parallel to it maġ-mán- (strong), cf. Gk. μέγ-ας, μἔγ-ιστος, Goth. mik-ils (big), Lat. mag-nus; indeed beside it stands Sk. √mah=magh (to wax), which exactly corresponds to Goth. √mag (can, be able); hánu-s (jaw)=Gk. γένν-ς, Goth. kinnu-s (chin), cf. Lat. gena, and (dens) genu-inus; ahám, i.e. *agham=ἐγώ, Goth. ik, Lat. ego; gha, ha=Gk. -γε, Dôr. -γa, Goth. -k (in mi-k=*με-γε). In all these cases Gk. γ=Goth. k are in favour of origl. g.
 - 2. Origl. $d=\operatorname{Sk}$. d, e.g. \sqrt{da} (dare), 3 sg. pres. med. $d\acute{a}-da-t\acute{e}$, 2 sg. imper. med. epic $d\acute{a}-da-sva$, 1 sg. pres. act. $d\acute{a}-d\ddot{a}-mi$; \sqrt{dam} (domare), e.g. $dam-\acute{a}-s$, $d\acute{a}m-ana-s$ (domans, coercens), 3 sg. pres. $d\ddot{a}m-y\acute{a}-ti$; \sqrt{vid} (uidere), e.g. 1 sg. pres. $v\acute{e}d-mi$, 1, 3, sg. pf. $v\acute{e}d-a=Foi\delta a$, $Foi\delta e$; \sqrt{sad} (sidere, considere), e.g. 3 aor. sg. $\acute{a}-sad-at$, etc.

Note.—d in $p\bar{\imath}d$ (press) and $n\bar{\imath}d\acute{a}$ - seems to have arisen from sd, namely in case of $p\bar{\imath}d$, which is proved unoriginal through $\bar{\imath}$ and d, comes fr. *pisd, *pi-sad=api-sad, of. $\pi\iota\acute{e}\zeta\omega=*\pi\iota$ - $\sigma\epsilon\delta$ y $\omega=*\acute{e}\pi\iota$ - $\sigma\epsilon\delta$ - $y\omega$; bes. $n\bar{\imath}d\acute{a}$ -s, $n\bar{\imath}d\acute{a}$ -m, stands Lat. $n\bar{\imath}du$ -s, which may very likely be for *nisdus (of. iu(s)-dex, i(s) dem; v. sub Lat. 'consonn.'), to which Teutonic nest points; *nisda-s would then have arisen from *ni-sada-s, and mean "down-sitting," unless it belong to \sqrt{nas} , on which point v. Curt. Gr. Et.² no. 432, p. 282.

- 3. Sk. b (cf. § 46, 3), which may be held unoright, occurs, e.g. in bala-m (force), with which is usually classed O. Bulg. bolij (greater); \sqrt{lab} , lamb (labi), 3 sg. pres. $l\acute{a}mb$ - $at\~{e}$, Lat. lab.
- § 54. Origl. mom. sonant asp. consonn.
 - 1. Origl. gh = Sk. gh, h.

Sk. gh = origl. gh, e.g. \sqrt{agh} in $agh - \acute{a}m$ (ill, sin, origl. prob. anguish); $\sqrt{stigh} = \sigma \tau \iota \chi$ (step), 3 sg. pres. $stigh - nut\acute{e}$; $m e gh - \acute{a} - s$ (clouds), cf. \sqrt{mih} , sub 'h' = gh; $d r gh \acute{a} - s$ (long) $= \delta o \lambda \iota \chi \acute{o} - s$, etc.

Sk. h = origl. gh; e.g. $h\tilde{a}s\acute{a}-s$ (goose), cf. $\chi\acute{\eta}\nu$, Germ. gans, Lith. $\dot{z}qs\grave{i}s$, Pol. $ge\acute{s}$; $\sqrt{a}h = angh$ in $\tilde{a}h-\acute{u}-s$ (snake), $\dot{a}h-as$, $\tilde{a}h-atis$ (pain); \sqrt{vah} (uehere), 3 sg. pres. $v\acute{a}h-ati$, for vagh, cf. Goth.

 \sqrt{vag} ; \sqrt{mih} (pour out, mingere), 3 sg. pres. $m\dot{e}h$ -ati for migh, § 54. ef. supr. $m\ddot{e}gh\dot{a}s$, Gk. $\sqrt{\mu\iota\chi}$; \sqrt{lih} (lick), 3 sg. pf. li- $l\dot{e}$ -ha, ef. $\lambda\iota\chi$, etc.

Note 1.—In nakha-s, nakha-m (nail, claw), cf. ὄνυχ-ος, Scl. nog-ŭtĭ, Goth. *nag-l-s, kh stands most strangely where we should have expected gh.

Note 2.—gh occurs rarely, e.g. gh gh gh gh gh gh occurs most often in initio in onomatopoëtic words.

2. Origl. dh = Sk. dh, h.

Sk. dh = origl. dh, e.g. \sqrt{dha} (set), 1 pres. $d\acute{a}$ - $dh\~{a}$ -mi, cf. τl - $\theta \eta$ - $\mu \iota$, Goth. \sqrt{da} : \sqrt{idh} (kindle), 3 sg. pass. idh- $y\acute{a}t\~{e}$, cf. Gk. $a\~{i}\theta$ - ω ; \sqrt{rudh} (rubere) in rudh- $ir\~{a}s$ (ruber), cf. Gk. $\acute{\rho}\upsilon\theta$, Goth. rud; $m\'{a}dhu$ (honey, mead, intoxicating drink), cf. $\mu\acute{e}\theta\upsilon$, etc.

Sk. h=origl. dh, e.g. in hi-tá-s for *dhi-ta-s fr. *dha-ta-s, past part. pass. \sqrt{dha} (set), cf. $\theta\epsilon$ - τ ó- ς ; \sqrt{rah} (rah-itá-, forsaken, bereaved; rah-as, ntr. secret, hidden) for *radh, cf. $\sqrt{\lambda a\theta}$ ($\lambda a\theta$ - $\epsilon \hat{\iota} \nu$, escape notice; $\lambda a\theta$ - ρa , secretly); \sqrt{guh} (hide) for *gudh, cf. $\sqrt{\kappa v\theta}$ ($\kappa \epsilon \dot{\nu} \theta$ - ω , hide); -hi for -dhi, sf. of 2 sg. imper. act., e.g. $p\bar{a}$ -hi (tuere), but $\nabla \bar{e}d$. gru-dhi= $\kappa \lambda \hat{\nu}$ - $\theta \iota$; in Sk. this -dhi occurs after consonn. only, e.g. ad-dhi, \sqrt{ad} (edere), but -hi after vowels.

3. Origl. bh=Sk. bh, rarely h.

Sk. bh=origl. bh, e.g. \sqrt{bhar} (ferre), 1 sg. pres. $bh\acute{a}r$ - $\ddot{a}mi$, cf. Gk. $\phi\acute{e}\rho$; \sqrt{bhu} (become, be), 3 sg. pres. $bh\acute{a}v$ -ati, cf. ϕv ; bhid (findere), 3 sg. pf. bi- $bh\acute{c}d$ -a, cf. Lat. \sqrt{fid} ; $n\acute{a}bhas$ (air, heaven), cf. $v\acute{e}\phi os$; \sqrt{bha} , 3 sg. pres. $bh\acute{a}$ -ti (gleam), cf. ϕa , ϕa -v, etc.

Sk. h=origl. bh, e.g. \sqrt{grah} , $\nabla \bar{e}d$. still grabh (seize); $m\dot{a}$ -hyam bes. $t\dot{u}$ -bhyam (dat. sg. pers. pron. 1 and 2), ef. mi-hi bes. ti-bi; bh has disappeared entirely in instr. pl. of a-st., e.g. $\dot{a}\dot{c}v\bar{a}is$ for * $a\dot{c}va$ -bhis (v. 'declens.').

In roots which end in aspp. an origl. initial asp. loses the aspiration; e.g. \sqrt{bandh} (bind), 3 s.g. pres. badh- $n\acute{a}$ -ti, pf. ba- $b\acute{a}$ ndh-a for *bhandh, Goth. band, Gk. $\pi e \nu \theta$ for * $\phi e \nu \theta$; $b\bar{a}$ h \acute{a} - $b\acute{a}$

§ 54. (masc. elbow) for *bhāhu-s, cf. Norse bōgr, Gr. πῆχυ-s for *φηχυs; √budh (learn, know), 3 sg. pres. budh-yátē, bốdh-ati, cf. Goth. √bud, Gk. πυθ for *φυθ; √druh (hurt), 3 sg. pres. druh-yáti for *dhrugh, Zend drug, drug, druz, but O.H.G. trug, i.e. earlier drug, are in favour of initial dh. Cf. the reduplication-law (§ 59, 3).

Consonantal Prolonged Sounds.

\S 55. Spirants y, s, v.

1. Origl. y=Sk. y, e.g. pron. \sqrt{ya} (rel.), n. sg. masc. yas; ya is further a frequent st.-formative element, e.g. $m\acute{a}dh$ -ya-s=med-iu-s; the same part. fms. the opt., e.g. s- $y\bar{a}$ -t=s- $i\bar{e}$ -t; further, as one part of the pres. stem which comes fr. as (esse), and serves to form the fut., e.g. $d\bar{a}$ -s- $y\acute{a}$ -ti= $\delta\acute{\omega}\sigma\epsilon\iota$ fr. $*\delta\omega$ - σ -ye- $\tau\iota$; ya forms derivative vbs., e.g. $bh\bar{a}r\acute{a}$ -ya-ti, 3 sg. pres. vb. causat. \sqrt{bhar} (ferre)= $\phi o \rho \epsilon \hat{\iota}$ fr. $*\phi o \rho \epsilon$ -ye- $\tau\iota$; \sqrt{yu} , $yu\acute{g}$ (iungere), cf. Lat. \sqrt{iug} , whence $yug\acute{a}$ -m=Lat. iugu-m; $y\acute{u}van$ -, acc. sg. $y\acute{u}v\bar{a}n$ -am, cf. Goth. juggs (same meaning), Lat. iuuenis: $y\acute{a}krt$ (liver), cf. Lat. ieuur (id.).

The connexion between y and i is treated in § 14, 1, d; the splitting up of y to iy, $\bar{i}y$, in § 14, 1, c; change fr. y to iy, $\bar{i}y$, v. § 15, 2, b.

2. Origl. s=Sk. s, š.

Sk. s=origl. s, e.g. \sqrt{sad} (sedere), e.g. $s\acute{a}d$ -as ntr., $s\acute{a}d$ -ana-ana (sedes); $s\acute{a}p$ -tan-, $V\bar{e}d$. $sapt\acute{a}n$ -=septem; \sqrt{su} (beget, sow), e.g. su- $t\acute{a}s$, past part. pass.; \sqrt{sru} (flow), 3 sg. pres. $sr\acute{a}v$ -ati: $sv\acute{a}sar$ -, ace. sg. $sv\acute{a}s\bar{a}r$ -an (sister); \sqrt{svid} (sweat), 3 sg. pres. svid- $y\acute{a}ti$; \sqrt{star} (sternere), 3 sg. pres. str- $n\acute{a}ti$; \sqrt{smar} (remember), 3 sg. pres. $sm\acute{a}r$ -ati; \sqrt{as} (esse), 3 sg. pres. $\acute{a}s$ -ti; \sqrt{vas} (dwell), 3 sg. pres. $v\acute{a}s$ -ati; \sqrt{vas} (clothe oneself), 3 sg. pres. $v\acute{a}s$ - $t\acute{e}$; in stand word-formative particles, as $m\acute{a}n$ -as (ntr. mens)= $\mu\acute{e}v$ - $o\varsigma$; -s is an element of nom. masc. and fem., e.g. $v\acute{r}ka$ -sas (wolf, wolves), etc.

Sk. š=origl. s, e.g. \(\square\) us (ur-ere), cf. us-tus, 3 sg. pres. \(\delta \section -ati \);

 $\sqrt{tarš}$ (thirst), 3 sg. pres. $tr\check{s}$ - $y\acute{a}ti$, cf. Lat. torr-eo=*tors-eo, § 55. Germ. durs-t; \check{s} also sporadically after a, e.g. $\sqrt{bh\bar{a}\check{s}}$ (speak), 3 sg. pres. $bh\check{a}\check{s}at\check{e}$, further fmn. of \sqrt{bha} =Gk. ϕa in $\phi \acute{a}$ - $\tau \iota$ - ς , $\phi \acute{a}$ - $\sigma \iota$ - ς (speech), $\phi \eta$ - $\mu \iota$ (say); bes. $bh\check{a}s$, 3 sg. pres. $bh\check{a}sat\check{e}$ (shine, gleam), further fmn. of a similarly sounding \sqrt{bha} =Gk. ϕa in $\phi a\acute{\iota}\nu \omega$ (show, make clear)=* ϕa - ν - $\nu \omega$, $\phi \acute{a}$ - $\sigma \iota$ - ς (showing); \check{s} thus stands to s as palatal to gutt.; it is initial in $\check{s}a\check{s}$ (sex) only, but cf. Zend $kha\check{s}\nu s$, a fm. which renders doubtful the originality of the initial sound of this numeral in the other langg. of our stock.

Origl. s has moreover undergone many more changes in Sk.; these changes, however, did not occur generally till a relatively late period; s before t (th) and p (ph) and after a (except in fine) remains fixed; after k and r, k stands for s; likewise after i, u(and their diphthongs, generally after other vowels, as after a, \bar{a}); medially bef. most sounds (bef. all vowels and y, v, m, t, th; o and bef. s do not break this sound-law); fr. st. bhūti- $(=\phi \nu \sigma \iota$) thus comes loc. pl. $bh \bar{u}ti$ -su for *bh $\bar{u}ti$ -su; $n\bar{e}$ -sy uti (3 sg. fut. \sqrt{ni} , lead) for *nai-syati; $\stackrel{.}{e}$ -ši, f.f. ai-si (2 sg. pres. \sqrt{i} , go); vák-ši (2 sg. pres. \(\sigma vak'\), speak) but \(\delta t\)-si for *au\(-\si\) (2 sg. pres. \sqrt{ad} , eat) and $t\hat{a}$ -su (loc. fem. pl. tu, pron. dem.); st. dhánus- (bow), loc. pl. dhánuo-šu or dhánus-šu for *dhanus-su; with sf. mant, dhánuš-mant-, n. sg. dhánuš-mān (provided with a bow). Betw. s and s there is nevertheless great vacillation (particulars must be relegated to Sk. special. gr.; it is enough to note here that § =origl. s).

o, r, ς , occur, like \check{s} , acc. to definite sound-laws, in place of s; yet mainly in termn. alone, in which case -as also may pass into \bar{o} , and s be lost, e.g. $vrka_0^\circ$ for vrka-s at end of a sentence, or bef. k, p; $avir\ \check{e}ti$ for $avis\ \check{e}ti$ (ouis it); r occurs for s bef. all sonant sounds unless a or \bar{a} precede; -as, however, bef. sonants becomes \bar{o} , and $-\bar{a}s$ becomes \bar{a} ; this latter also medially, e.g. $\varsigma \bar{a}$ -dhi for ${}^*\varsigma \bar{a}s$ -dhi, 2 sg. imper. fr. $\sqrt{\varsigma} \bar{a}s$ (rule), but 3 sg. imper. $\varsigma \bar{a}s$ -tu; $avis\ karati$ (the sheep goes); vrko bhavat for $vrkas\ abhavat$ (the wolf was); $vrka\ \bar{a}st\bar{e}$ for $vrkas\ \bar{a}st\bar{e}$ (the wolf sits), etc.

§ 55. In stems ending in -s these changes take place before case-sff. also which begin with a conson., e.g. st. mánas-, g. mánas-as, without change; but instr. pl. mánōbhis for *manas-bhis, loc. pl. mánao-su for mánas-su, which also occurs, dhánur-bhis for *dhanus-bhis, st. dhánus- (bow).

š bef. s passes into k, e.g. \sqrt{dvis} (hate), 2 sg. pres. $dv\acute{e}k$ -ši for * $dv\acute{e}\acute{s}$ -si; also the change to t, d occurs, as in the case of c, e.g. dvid- $dh\acute{i}$, 2 sg. imper. act. $\sqrt{dvi\acute{s}}$ for * $dvi\acute{s}$ - $dh\acute{i}$. Cf. Sk. grammars.

Note.—In çráçura-s (father-in-law), çraçrū-s (mother-in-law), ç stands in initio (by assimiln. to follg. ç), instead of s, cf. Zend qhaçura- i.e. **svaçura-, ἐκυρό-ς, Lat. socer, socrus; similarly in st. çúšha- (dry) for **susha-, cf. Z. husha-, O.Bulg. suchŭ, f.f. sausa-s, Lith. sausa-s; ç for s occurs besides in other single cases bef. v and u.

On the connexion betw. v and u, v. § 14, 1, c, d.

§ 56. Nasals.

1. Origl. n=Sk. n, e.g. na, an- (negation); \sqrt{nac} (perish), 3 sg. pres. $n\acute{a}cyati$, cf. $ve\kappa$; st. nar-, nara-, n. sg. $n\ddot{a}$ for *nars, nara-s $(\grave{a}-v\acute{\eta}\rho)$; $n\bar{a}u$ -s= $va\acute{v}c$; $n\acute{a}$ -man=Lat. $n\ddot{o}$ -men-; $d\acute{a}nta$ -s (dens); often n is changed into another nasal, e.g. $p\ddot{u}r$ - $n\acute{a}$ -s (plenus, cf. supr. $\ddot{u}=a$, § 8), f.f. par-na-s, n for n, since r precedes, v. post.; $g\acute{n}a$ - $t\acute{a}c$ = $gn\ddot{o}$ -tus, origl. fm. of $\sqrt{g\acute{n}a}$ is gan, on n for n, v- post.; $g\acute{n}a$ - $t\acute{a}c$ = $gn\ddot{o}$ -tus, origl. fm. of $\sqrt{g\acute{n}a}$ is gan, on n for n, n- post.; $g\acute{n}a$ - $t\acute{a}c$ = $gn\ddot{o}$ -tus, origl. fm. of $g\acute{n}a$ =gan, on gan for gan0 sg. med. with gan0, since gan0 sg. full has nasal gan0 because gan0 follows; gan0 sg. fut. med. gan1 sg. gan2 sg. pres. act., gan2 sg. fut. med. gan3 sg. fut. med. gan4 sg. gan5 sg. fut. med. gan5 sg. fut. med. gan6 sg. gan6 sg. full these changes must have been wanting in Indo-Eur. origl. lang.

because clearly either the nasal was not yet within the root, but § 56. stood after it, acc. to the formative principles of Indo-Eur. (v. Introduction, 2), and so the fms. in question were still perh. yug-nanti, yug-natai, or else n and m remained unchanged, e.g. man-si, etc.

Bef. case-termns. which begin with consonn., n as a noun-st-termn. disappears, e.g. st. $n\tilde{a}man$ - (nomen), loc. pl. $n\tilde{a}ma$ -su for * $n\tilde{a}man$ -su (* $n\tilde{a}m\tilde{a}$ -su). This sort of loss of n takes place in other like cases also.

2. Origl. m=Sk. m, e.g. \sqrt{man} (mean, think), whence $m\acute{a}n-as$ (mens)= $\mu\acute{e}\nu$ -os; $m\ddot{a}$ -t $\acute{a}r$ -= $m\ddot{a}$ -ter-; \sqrt{smar} (remember), cf. Lat. me-mor with lost s; \sqrt{vam} , Lat. uom-ere, 3 sg. pres. $v\acute{a}m$ -ati; in st.- and word-formative particles thus sf. man, e.g. $n\acute{a}$ -man-; m as sign of acc. case, e.g. \acute{a} - $var{a}$ -equo- $var{a}$: $var{a}$ - $var{a}$ -var

The nasals n, m have, as the above exx. show, undergone many variations in Sk. because they always adapt themselves to the quality of the succeeding consonn. Accordingly bef. gutt. mom. \dot{n} only is found; bef. palatals is found \dot{n} , this sound occurs also immediately after k, \dot{g} ; bef. lingg. and (acc. to distinct sound-laws) where ling. sounds \dot{s} , r, precede in a word, \dot{n} is found; n has its place bef. dentt. and vowels; m bef. labb. and vowels (these two origh nasals only are found in the beginning of a word); bef. s and h, \ddot{n} is found. Particulars belong to Sk. special-gr.

r- and l-sounds.

\$ 57.

r was softened to l in many cases at an early date; sometimes the earlier lang. retains r where the later already has l.

Sk. r=origl. r, e.g. \sqrt{ram} , 3 sg. pres. $r\acute{a}mat\bar{e}$ (he is pleased); \sqrt{rik} (separate), 3 sg. pres. $r\acute{a}-k-ti$ (with inserted na); \sqrt{ruk} (shine), 3 sg. pres. $r\acute{o}k$ - $at\bar{e}$; \sqrt{mar} (mori), e.g. mr- $t\acute{a}$ -s, past part. pass. (mortuos); \sqrt{par} (fill), 3 sg. pres. $p\acute{a}$ -par-ti; st. \sqrt{krp} - (fem. appearance, beauty), \sqrt{karp} , cf. corp-us, Z. keref-s; in sff., e.g. rudh-i- $r\acute{a}$ -s=e- $pv\theta$ - $p\acute{o}$ -s; sf. tar, Lat. tor; tra-m, Lat. tru-m, etc.

§ 57. Note.—In terms. r was treated like s; at the end of a sentence it becomes ${}^{\circ}_{0}$, etc., cf. § 55, 2.

Sk. l=original r, e.g. $l\delta k$, 3 sg. pres. $l\delta k$ - $at\bar{e}$ (see), doubtless akin to $ru\vec{k}$ (shine), cf. $\lambda \epsilon \nu \kappa$ -ós and $\lambda \epsilon \nu \sigma \sigma \omega =$ *λευκ-yω; √lup (break), 3 sg. pres. lumpáti, cf. Lat. √rup; √kalp (be in order), 3 sg. pres. kálpatē, cf. krp; √lih, λιχ, Lat. lig. Erse lig. Goth. lig. Lith. liz, Scl. liz (lick), but in earliest Indian still rih. Also where the kindred langg. show no r, we must yet assume an oright, because we notice that ! is continually spreading, whilst r becomes rarer; if we suppose this process to have been going on continuously in pre-historic times, r will remain as the older by elimination; cf. Zend. Such instances are found in e.g. plu (float), Lat. plu, Gk. $\pi \lambda v$, Scl., Lith. plu, Germ. flu (in flu-z, in diall. fleu-e (wash); here precisely it happens that \(l-\)so frequently interchanged with \(r-\) occurs throughout; whilst in Sk. there is still a root pru (go) in existence, which origly. was prob. identical with plu, and must be considered as its earlier fm.

§ 58. Sketch of some sound-laws important for comparative grammar (so far as they are not contained in foregoing sections).

Between the various ways in which the Indo-Eur. sounds make their appearance in particular Indo-Eur. langg. (i.e. those changes of oright, sounds through which this or that distinct lang, arose from their common fundamental lang., e.g. Sk. $v\acute{a}k'$ -am, Gk. $F\acute{o}\pi$ -a, Lat. $u\~{o}c$ -em, fr. f.f. $v\~{a}k$ -am), and the variations which the sounds undergo during the separate existence of the lang, thus produced, namely sound-laws, we can draw no sharp line of demarcation. The distinction between sound-representation and sound-law is chronological, and therefore indeterminate, and the exact definition of the date at which a sound-change occurred is generally difficult. For this reason, and also in order not to break up the subject too much, I have often above left the boundary between sound-correspondence

and sound-law ill-defined; moreover, sound-laws—as peculiar to § 58. the separate-life of a lang.—belong here only in so far as they bear upon our knowledge of older word-forms. The numerous laws, e.g. in Sk., which come into play only when words are composed into sentences, may here be mostly omitted, since we are treating of words taken separately.

We find, esp. in written lang., forms of different periods beside each other, e.g. Sk. yuk-tá-s for *yug-ta-s, $\checkmark yu\acute{g}$ (iungere), after an earlier mode of formn. than $i \acute{s}$ -tá-s for *ig-ta-s, *ik-ta-s, f.f. yag-ta-s, $\checkmark ya\acute{g}$ (open, v. § 53, 1, n.); here the sound-law by which $\acute{g}t$ becomes $s \acute{t}$ is clearly later than the preservation of the origl. combination gt, i.e. kt (bef. t, k must naturally occur for g).

Generally speaking we may call the Sk. very rich in conson. sound-laws; its conson. system is thus manifoldly unoright from this point of view also. Consonn. often exercise influence on one another, not only in the middle of words, but also between the end of one word and the beginning of another when they are combined in a sentence, a process which we can scarcely attribute to the lang. at this early condition; the laying-down of these laws belongs, as we have said, in a great measure elsewhere.

MEDIAL SOUND-LAWS.

1. Assimilation.

§ 59.

- a. Medially also sometimes occurs complete assimilation of a preceding to a follg. sound, e.g. bhinna- for *bhid-na-, past part. pass. \$\sqrt{bhid}\$ (split); panna- for *pad-na-, likewise fr. \$\sqrt{pad}\$ (go, fall), and so often in similar cases.
- b. Lightening of conson.-groups by loss of one sound is likewise not rare, e.g. $ka\check{s}t\bar{e}$ for $*kak\check{s}-t\bar{e}$ (t for t on acct. of \check{s} , v. sqq.), 3 sg. pres. med. $\sqrt{kak\check{s}}$ (see), etc.; $\acute{a}-tut-ta$, 3 sg. med. aor. compos. \sqrt{tud} (push) for *a-tut-s-ta, and so frequently in case of s betw. two mom. consonn. in like cases.
 - c. Bef. sonant mom. sounds sonants only, bef. mutes mutes

§ 59. only, are found, e.g. st. vak (voice) instr. pl. vag-bhis; yu-ná-ý-mi, 1 sg. pres. \sqrt{yu} (iungere), but 2 sg. yu-ná-k-i, 3 sg. yu-ná-k-t for *yu-yag-si, *yu-yag-t (cf. § 53, 1); ád-mi, 1 sg. pres. \sqrt{ad} (edere), but át-si, 2 sg. pres. át-ti, 3 sg. pres. for *ad-si, *ad-ti,; bhárad-bhis, instr. pl. fr. st. bhárant- (ferens) for *bharat-bhis fr. *bharant-bhis, etc.

The influence of spirant s on follg. mom. sounds has been already handled under 's.' In the case of the combination of š with a follg. t, th, the latter becomes assimild. to s because it is a lingual, e.g. superl. sf. origl. is-ta; fr. yans, compar. sf. shortened is + ta, arises next *is-tha (§ 51, sqq.), and since after vowels other than a, \bar{a} , \bar{s} must occur for s, * $i\bar{s}$ -tha, whereby also th becomes th, so that in Sk. $i\bar{s}$ -tha stands for ista, e.g. st. $a\bar{c}$ - $i\bar{s}$ -tha=Z. $a\bar{c}$ -ista-, Gk. $b\bar{c}$ - $b\bar{c}$

For the changes of s produced by assimiln. v. § 55, 2; by nasals, § 56, 2.

An example of dissimilation worth notice is found in the change of s to t at the end of a root bef. the termn. in s of fut. and aor., e.g. \sqrt{ras} (dwell), 3 sg. fut. vat-syáti, 3 sg. aor. \acute{a} - $v\~{a}\acute{t}$ - $s\~{t}$ for *vas-syati, * \acute{a} - $v\~{a}\acute{s}$ - $s\~{t}$. Doubled s was generally avoided, e.g. $\acute{a}si$, 2 sg. pres. \sqrt{as} (esse), for as-si= $\acute{e}\sigma$ - $\sigma \emph{t}$, cf. § 55, 2.

Note.—The s of \sqrt{ras} (dwell) is oright and perh. not due to t, cf. Goth. \sqrt{ras} (remain, be), pres. $ris-a=ras-\bar{a}mi$.

2. The aspirates stand bef. vowels and son. prolonged consonn. only, and therefore never in terms. The collision of a sonant gutt., dent., or lab. aspirate with follg. t (th) is common. In this case the aspp. throw their aspiration on follg. t, which in its turn becomes like the preceding sound in that it assumes vocal-sound; fr. sonant aspp. +t arise therefore son. unasp. consonn. +dh;

accordingly gh+t=gdh; dh+t=ddh; bh+t=bdh, e.g. $\sqrt{budh} \le 59$. (learn, know), step-formed $b\bar{o}dh+tum$ (infin. termn.)= $b\bar{o}ddhum$; \sqrt{labh} (hold)+ $tum=l\bar{a}bdhum$, etc.: h here also often is clearly equivalent in force to gh (cf. ≤ 54 , 1), e.g. \sqrt{duh} (milk)+ta, sf. past part. pass., composes the fm. $dughd\bar{a}$ -s, further dug- $dh\bar{a}$ (2 sg. imper.) for *dugh- $dh\bar{a}$, $d\bar{o}g$ - $dh\bar{a}$ for * $d\bar{o}gh$ - $t\bar{a}$, 3 sg. pres., collectively formed as sounds from still existing \sqrt{dugh} . Other roots (whose initial is not d) also treat their h otherwise, e.g. ruh (increase)+ta (pf. part. pass.) fms. $r\bar{u}dh\bar{a}$ -; * $l\bar{e}h$ - $t\bar{i}$, * $l\bar{e}gh$ - $t\bar{i}$, 3 sg. pres. \sqrt{lih} , i.e. ligh (lick), become $l\bar{e}dh\bar{a}$, etc.; h+t, th, dh, here becomes dh, accompanied by lengthening of preceding short vowel: this sound-interchange is accordingly clearly more secondary and later than the change of ht, i.e. ght, into gdh. The aspiration is thus throughout postponed to the follg. consonant.

When the aspiration of a root-termn cannot remain, e.g. in termn or bef. s, and the root begins with an origh sonant unaspd. conson, the aspn passes over to the latter, e.g. st. sarvabúdh- (all-knowing), n. sg. should be *sarva-budh-s, s is necessarily lost, acc. to termination-laws, dh became t, the aspn passes over to the b, and the word is sarva-bhút; precisely so the loc. pl. sarva-bhút-su fr. *-budh-su; h here too was treated like gh, e.g. 3 sg. aor. \sqrt{duh} (milk) is \acute{a} -dhuk- \acute{s} at, with \acute{s} for \acute{s} acc. to rule (§ 55, 2), for *a-dugh-sat; likewise where the final aspn disappears through loss (assimiln.), e.g. $dh \acute{e} h \acute{t}$ (2 sg. imperact.) for *dhāhi (§ 15, e), and this for *dā-hi fr. *dadh-hi, *dadh-dhi; dadh- for da-dha- is pres. st. of \sqrt{dha} (set), hi, dhi, termn of 2 sg. imperact.

3. Law of reduplication. In redupln, the gutt. are changed into palatals: $ka-k\acute{a}ra$, pf. \sqrt{kar} (make); of more than one conson. or consonantal double-sounds (aspp.; h=gh) only the first was maintained; $d\acute{a}-dh\bar{a}-mi$, pres. \sqrt{dha} (set, lay); $\acute{g}u-h\acute{o}-mi$, \sqrt{hu} (open; cf. also § 54, 3, sub. fin.); $cu-cr\acute{a}v-a$, pf. \sqrt{cru} (hear); only in case of s+mom sounds does the second

§ 59. of these sounds remain; ti-šṭha-ti, pres. √stha (stand), origl. fm. of pres. is sta-sta-ti.

TERMINATION.

§ 60. 1. In termn. only one conson. is tolerated, of more than one only the first remains, e.g. st. $r\bar{a}k'$ (voice, acc. $r\check{a}k'-am$) should be in n. sg. * $r\bar{a}k'-s$, or rather (acc. to § 52, 1) * $r\bar{a}k-s$, or (acc. to § 55, 2) $r\bar{a}k-s$, wherefore $r\bar{a}k$ is now seen. Since aspp. are double-sounds, they must lose their aspn.; thus we find, not *sarva-budh, but *sarva-bhud, with aspn. transferred (acc. to § 59, 2), for which, acc. to the follg. law (no. 2), sarva-bhut with t for d occurs.

Only r + mom. conson can stand in fine, a case which nevertheless occurs but seldom; moreover bef. follg. k, t, t, and kh, th, th, the combn. s stands with their representatives, e.g. acc. pl. of n. sg. acc. equos, f.f. is *acvāns or *acvāns, hence e.g. acvās tatra (equos ibi); cri-man (pleasant), n. sg. masc. f.f. *cri-mant-s, hence e.g. yet crimac karati (felix it; c for s acc. to c 55, 2); c 67. *asan, c 75 10. Impl. c 68. In stems in -ant, which are interchanged with fms. in -ans, further in termn. of 3 pl. -us for -ant, hence e.g. c 68. c 58. c 58. c 58. c 69. c 69.

2. As only mute mom. consonn. (when no distinctly influencing clearer sound follows upon it; in pausa) could stand in fine, the son. consonn. pass over into the mutes of their quality; hence

for *sarva-búdh, not *sarva-bhud, but sarva-bhút is found. $h, \S 60$. i.e. gh, becomes t in terms., earlier k (for g, gh) has been retained in such roots only as begin with d, e.g. fr. lih (licking) comes in nom. (f.f. ligh-s) lit (lid bef. sonants), but fr. duh (milking), dhuh (dhug).

Note.—That palatals are not retained in terms. was remarked above in § 51, sub. fin.

CONSONANTS OF GREEK.

§ 61.

v. Table in § 16.

The consonl. system of the Gk. has retained 1. the origi. aspirates, not, however, as sonants, but as mutes: $\chi = kh$, $\theta = th$, $\phi = ph$, these can be proved to be the oldest equivalents of the Gk. sounds; the pronunciation of χ , ϕ , as spirants, i.e. χ = Germ. ch, $\phi = f$, and that of θ as a sibilant (nearly like ts), is of later origin, and arose first partially and afterwards in all cases. The passing of origh, sonant aspp. into Gk. mute aspirates is not inexplicable according to the physiology of sounds. Arendt (Kuhn und Schleicher, Beitr. ii. 283) conjectures, prob. rightly, that the un-sonant h of the oright aspp. gh, dh, bh, changed the preceding sonants g, d, b, into the mutes κ , τ , π , and indeed no one will deny that kh, th, ph, are much easier to pronounce than gh, dh, bh. Thus the Gk. already permits of an assimilation. Change of sonn. to un-sonn. is seen also in Teutonic (origl. g, d =Germ. k, t). The agreement of the Indo-Eur. langs. collectively, and also of those langg. which are nearest of kin to the Gk., prevents us from accepting the supposition that the Gk. alone has preserved the oldest equivalents for the Indo-Eur. aspirates (that the sounds kh, th, ph, existed in the orighle lang. instead of gh, dh, bh; cf. esp. G. Curtius, Gr. Etym. p. 369 sqq.). 2. Gk. shows a dislike of the origh. spirants; y even, in the earliest accessible state of the lang., is found merely remaining in its effects, but lost as a separately existing sound; v is retained

§ 61. as F in the archaic lang.; s stands its ground only in terminations and bef. and after mutes (ξ , ψ); moreover, when another sound has assimilated itself to it (s); before vowels it becomes h, and generally falls out between vowels. In Gk. as in all other Indo-Eur. langg., except Zend, l already occurs often beside l.

Generally, therefore, the consonantal-system of the Gk. is nearer to that of the origl. lang. than that of the Sk. or of most other Indo-Eur. langg.

As for consonl. sound-laws, the loss of origl. spirants and the variations which arise through this loss, and through the effects of origl. spirants on neighbouring sounds, bring about a considerable deviation from the older system of sounds. Assimilation has already acquired a widely extended sway: dentals generally have fallen away before s, n, mostly with a lengthening of preceding vowel. The palatal sounds (y, i) already show their influence in many cases (zêtakismos). Further, but few consonn. are tolerated in termn.; in short, in its consonantal sound-laws Gk. much resembles a lang. which is already in a comparatively late stage of existence.

§ 62. Examples.

Origl. momentary mute unaspirated consonants.

1. Origl. k = Gk. κ , γ , π , τ ($\kappa y = \sigma \sigma$, cf. sound-laws).

Gk. κ =origl. k, e.g. $\kappa \alpha \rho \delta$ - $\ell \alpha$ (heart), cf. Lat. cord-, Lith. szird- ℓs , Scl. $sr\ddot{u}d$ - ℓce , Goth. $ha\acute{u}rt$ - δ , Indo-Eur. lang. collectively presuppose an initial κ , Sk. hrd- thus stands for *khard-, origl. kard-; $\kappa e \ell$ - $\mu \alpha \ell$ (I lie), $\kappa o \ell$ - $\tau \eta$ (bed), $\sqrt{\kappa \ell}$, Sk. ℓi , Scl. and origl. ki; $\kappa \acute{v}\omega \nu$, $\kappa \nu \nu$ - δs (hound), Sk. st. ℓv an-, origl. kvan-; $\kappa \lambda \nu$ - $\tau \delta s$ (famed), $\sqrt{\kappa} \lambda \nu$ (hear), Sk. ℓv ar, Goth. ℓv ar, Sk. ℓv

Note.— ξ is merely a character for ks, e.g. δείξω (I will show) § 32. =*δείκ-σω; δεξιός (right)=*δεκ-σιος, *δεκ-τιος, cf. dexter, Sk. dákš-inas, etc.

Gk. γ is sometimes a later softening fr. κ , which often remains beside it (cf. G. Curtius, Gr. Et.² 467 sqq., 600 sqq.), e.g. $\sqrt{\phi\rho\alpha\gamma}$ in $\hat{\epsilon}$ - $\phi\rho\acute{\alpha}\gamma$ - $\eta\nu$ bes. pres. $\phi\rho\acute{\alpha}\sigma\sigma\omega$ (fence in)= $^*\phi\rho\alpha\kappa$ - $\gamma\omega$ (v. sound-laws), Lat. farc-io (on the difference of meaning v. G. Curt. Zeitschr. xiii. 399); $\sqrt{\mu\alpha\gamma}$ in $\hat{\epsilon}$ - $\mu\acute{\alpha}\gamma$ - $\eta\nu$, $\mu\acute{\alpha}\gamma$ - $\epsilon\iota\rho$ os (cook), $\mu\alpha\gamma$ - $\epsilon\acute{\nu}$ s (pastry-cook), but $\mu\acute{\alpha}\sigma\sigma\omega$ (knead)= $^*\mu\alpha\kappa$ - $\gamma\omega$, cf. mac-erare, Lith. $m\grave{i}nk$ - γti (knead) bes. mank- $szt\acute{\gamma}ti$ (soften), root therefore mank fr. mak; $\mu\acute{\nu}$ o $\gamma\omega$, $\mu\acute{\nu}$ $\gamma\nu\nu\nu\mu\iota$ (mingle), bes. Lat. misceo, Sk. $mis_i\gamma\imath\acute{\nu}$ $\gamma i\dot{\nu}$ $\gamma i\dot{\nu}$

Gk. π =origl. k (cf. G. Curt. in Kuhn's Zeitschr. iii. 401 sqq.), e.g. $\sqrt{\pi \epsilon \pi}$ (cook) in $\pi \epsilon \pi \epsilon \pi \tau a \iota$, $\pi \epsilon \psi \omega$, i.e. $\pi \epsilon \pi \tau \sigma \omega$, $\pi \epsilon \pi \tau \omega \nu$ (ripe), bes. $\pi \epsilon \kappa$ in $\pi \epsilon \sigma \sigma \omega$ (cook)=* $\pi \epsilon \kappa$ -yω, origl. kak, Lat. coc; $\pi \epsilon \nu \tau \epsilon$ (five), Aiol. $\pi \dot{\epsilon} \mu \pi \epsilon$, $\pi \dot{\epsilon} \mu \pi$ -το-ς (fifth), $\pi \epsilon \mu \pi$ -άζειν (count by fives), Lat. quinque, origh. kankan; $\sqrt{\pi o}$ in $\pi o \hat{v}$ (where), $\pi \hat{\omega}_s$ (how), πότερος (whether, uter), Ion. still κοῦ, κῶς, κότερος, Lat. quo-, Goth. hva-, Sk. Lith. Sclav. and origh. ka-; √έπ in έπ-ομαι (follow), origl. sak, Lat. seq; √Feπ in Féπoς (word), εἶπον (I said)= $*F\epsilon F\epsilon \pi o \nu$, $*Fo\pi - \varsigma$ (voice)= $u\bar{o}c$ -s, oright vak (speak), in $\ddot{o}\sigma\sigma\alpha$ (voice)=* $Fo\kappa\gamma\alpha$ (v. sound-laws), k has remained; $\sqrt{\lambda \iota \pi}$ in $\lambda \epsilon \iota \pi - \omega$ (leave), $\lambda \iota \iota \pi - \delta \varsigma$ (left over)=Lat. lie (linguo), Sk. rik, origl. rik; $\sqrt{\partial \pi}$ in $\delta \psi o \mu a \iota$ (I shall see), $\delta \mu \mu a$ (eye), Aiol. $\ddot{o}\pi - \pi a = *o\pi - \mu a$, Lat. oc in oc-ulus, Lith. ak-is (eye), etc., but dual ὄσσε=*οκιε, fr. a st. *οκι- (eye), Lith. and origh. akiwith k retained. Acc. to G. Curt. Gk. π is in 17 cases= oright, whilst in 104 cases it remains k, thus about one-sixth of oright k has been changed to π .

Gk. τ=origl. k occurs mostly in pronl. and num. stems, thus τl-ς (who), Lat. qui-s, Sk. *ki-s (in na-kis, no one, mā-kis, O.Bulg. mā-kis, ne quis), origl. ki-s; τε (and), origl. ka, Sk. -ka, Lat.

- § 62. -que, Goth. -u-h for *-ha, cf. πό-τε (when), Dôr. πό-κα, ἄλλο-τε (another time), Dôr. ἄλλο-κα; πέντε (five) bes. Aiol. πέμπε (see ab. π=k), origl. kankan, cf. quinque; τέσσαρες (four), origl. katvāras, cf. Lat. quatuor(es), Sk. κατνάτ-αs, Lith. keturi. This correspondence of sounds occurs but rarely in other roots, e.g. √τι in τί-ω (honour, valuate), τī-μή (honour), τί-νω, τί-νυμι (punish, fine), Sk. κί in κάy-ē (I punish), αρα-κί-τα-s (honoured), origl. therefore ki.
 - 2. Origl. t=Gk. τ ($\tau y=\sigma \sigma$, v. sound-laws), e.g. $\tau \delta(\tau)$ origl. and Sk. ta-t (nom. acc. sing. dem. pron. st. origl. ta-); $\sqrt{\tau}a$, $\tau \epsilon \nu$ in $\tau \epsilon$ - τa - κa , $\tau \delta$ - $\nu \nu$ - $\mu a \iota$ (stretch myself), $\tau \epsilon \ell \nu \omega$ (stretch, lengthen)=* $\tau \epsilon \nu$ - $\nu \omega$, origl. and Sk. ta, tan; st. $\tau \rho \iota$ (three) in $\tau \rho \epsilon \hat{\iota} s$, origl. and Sk. tri-; $\nu \sigma \tau a$ (stand), in $\sigma \tau a$ - $\tau \delta s$ (placed), $\sigma \tau \delta$ - $\sigma \iota s$ (setting, revolt), $\hat{\iota}$ - $\sigma \tau \eta$ - $\mu \iota$ (set up), origl. and Lat. sta, etc.; $\nu \sigma \tau \epsilon \gamma$ in $\sigma \tau \epsilon \gamma$ - σs (roof), $\sigma \tau \epsilon \gamma$ - σs (cover), cf. Lith. $\nu s teg$, origl. stag; $\nu \tau \epsilon \tau$ in $\tau \epsilon \tau$ - $\sigma \iota s$ (fly), $\tau \iota$ - $\tau \epsilon \tau$ - σs (fall), origl. and Sk. νt - τs (fly, fall); $\tau \delta \tau s$ (broad), origl. τs - τs -

The combination $\kappa\tau$ is in most cases preserved only in Gk., while in other lange, it is softened to ks, e.g. st. τέκτον-(carpenter), Sk. tákšan-, cf. O.H.G dëhsa, dëhsala (axe); ἄρκτος (bear)=Lat. ursus, by Lat. sound-laws for *urcsus fr. *urctus, Sk. ŕkšas, f.f. *ark-ta-s.

Note.—Upon the very uncommon softening of τ to δ in Gk. cf. G. Curt. Gr. Et.² p. 469 sqq. It occurs almost without exception in obscure etymologies, not in words accurately corresponding with their kindred lange.

3. Origl. p=Gk. π (cf. $\pi=$ origl. k), e.g. $\sqrt{\pi o}$, $\pi \iota$ (drink), in $\pi \delta$ - $\sigma \iota$ s (draught), $\pi \dot{\epsilon}$ - πo - $\mu a \iota$, $\pi \dot{\epsilon}$ - $\pi \omega$ - κa , $\pi \iota$ - $\nu \omega$ (drink); $\pi \delta$ - $\sigma \iota$ s (husband), f.f. and Sk. $p \dot{a}$ -t i s (lord); st. πa - $\tau \dot{\epsilon} \rho$ - (father), origl. p a-t a r-, fr. $\sqrt{p} a$ (protect); $\sqrt{\pi} \lambda a$, e.g. in $\pi \iota \mu$ - $\pi \lambda \eta$ - $\mu \iota$, $\pi \iota \mu$ - $\pi \lambda \dot{a}$ - $\nu a \iota$ (fill), origl. p r a fr. p a r, e.g. Sk. $p \dot{t}$ -p a r-m i (1 sing. pres. act.); $\pi \lambda a \tau \dot{\nu} s$ (broad), origl. p r a t u s, Sk. $p t t h \dot{u} s$; $\sqrt{\pi} \lambda v$ in $\pi \lambda \dot{\epsilon} F$ - ω . (sail), $\pi \lambda \dot{\delta} F$ -os (voyage), $\pi \lambda v$ - $\tau \dot{\delta} s$ (washed), Sk. $p \iota u$, origl. p r u;

 $\sqrt{\epsilon}\rho\pi$ in $\epsilon\rho\pi$ - $\epsilon\tau\acute{o}\nu$ (creeping-thing), $\epsilon\not\rho\pi$ - ω (creep)=Sk. and § 62. origl. $s\acute{a}rp$ -ami, Lat. serp-o, origl. sarp; v π -vos (sleep), origl. and Sk. $sr\acute{a}p$ -nas, cf. som-nus=*sop-nus, etc.

Note 1.—The softening of π to β , likewise uncommon, and only found in words of obscure etymology, has been treated

of by G. Curt. elsewh. p. 471 sqq.

Note 2.—On unoriginal aspiration of tenues caused by operation of sound-laws, v. 'sound-laws.' Sometimes in Gk. as in Sk. aspirates make their appearance without visible reason. This occurs comparatively frequently in the case of π , cf. \dot{a} - $\lambda \epsilon i \phi - \omega$ (anoint), \dot{a} - $\lambda o i \phi - \dot{\eta}$ (ointment), bes. $\lambda i \pi - a$, $\lambda i \pi - o \varsigma$ (grease), λιπ-αρός (greasy, shiny), cf. Sk. \/lip (anoint), O.Bulg. lep-u (plaster), Lith. lip-ti (cleave to); βλέφ-αρον (eyelid) bes. βλέπ-ω (glance); κεφ-αλή (head) bes. Lat. cap-ut, Sk. kap-ālas, kap-alam (shell, skull); σαφ-ής (clear), σοφ-ός (sap-iens), cf. Lat. sap-io (smack, am wise), O.H.G. \(\sab \) (understand; in pf. int-suab, *ant-suob, he understands, notices), etc. Moreover, $\mu \delta \theta$ -os (bustle) must not be coupled with Sk. \sqrt{math} , manth (i.e. mat, mant, stir, move), and O.Bulg. met-a (trouble), met-ezi (uproar, tumult). In έ-τυχ-ον (I chanced), τυχ-ή (chance), τεύχ-ειν (prepare), and Iôn. τε-τύκ-οντο (they prepared), τύκ-ος (mason's tool), we cannot suppose different roots; so too δέχ-ομαι (receive) bes. Ion. δέκ-ομαι, δοκ-ός (beam), δοκ-άνη (fork) has the look of an unorigl. asp. In the perf. this unorigl. asp. has developed into a kind of medium for stem-formation, v. sub. Perf. G. Curt. Gr. Et.² p. 439 sqq. has treated at length of Unorigl. Aspiration in Gk.

Momentary sonant unaspirated consonants.

§ 63.

1. Origl. $g = Gk. \gamma, \beta$.

Gk. γ =origl. g (on ζ = γy , v. sound-laws), e.g. $\sqrt{\gamma \epsilon \nu}$ in $\gamma \epsilon \nu$ -os (race), $\gamma \ell$ - $\gamma (\epsilon) \nu$ -o $\mu a \iota$ (I am born, become), Sk. $\dot{g}an$, origl. gan; $\sqrt{\gamma \nu \sigma} = gna$ fr. gan in $\gamma \iota$ - $\gamma \nu \dot{\omega}$ - $\sigma \kappa \omega$ (I learn), $\gamma \nu \dot{\omega}$ - $\mu \eta$ (thought, opinion); $\gamma \dot{\sigma} \nu \nu$ (knee)=Sk. $\dot{g}\dot{a}n\nu$, cf. Lat. $gen\nu$, Goth. $kni\nu$; $\sqrt{\zeta \nu \gamma}$, origl. yug (iungere) in $\zeta \epsilon \dot{\nu} \gamma$ - $\nu \nu \mu \iota$ (I yoke), $\zeta \nu \gamma$ - $\dot{\sigma} \nu$ (yoke); $\sqrt{\dot{a}} \gamma$ in $\ddot{a} \gamma$ - ω (lead)=Sk. $\dot{a}\dot{g}$ - $\ddot{a}mi$, Lat. ag-o, O.Norse inf. ak-a, 1 sing. pres. ek, pf. $\bar{o}k$, etc.

Note 1.—It is only in quite detached cases that Gk. δ seems = origl. g (like τ =origl. k); thus prob. δελφ-ύ- ς (uterus) must be

§ 63. placed beside Sk. gárbh-a-s (id.), esp. since a form ἀδελφειός corresponds perfectly to Sk. sa-garbhyas (co-uterinus) in its formn. It is worthy of note that βρέφος, too (v. sq.), stands close to Sk. gárbhas.

Note 2.—On Gk. γ and Sk. h, cf. § 53, 1.

- Gk. $\beta = \text{origl. } g \text{ (cf. § 68, 1, e)}; \sqrt{\beta a} \text{ in } \beta i \beta \eta \mu \iota, \beta \acute{a} \sigma \kappa \omega \text{ (go)}$ =Sk. and origl. ga (go), in Sk. $\acute{g}i$ - $g\bar{a}$ -mi, origl. ga- $g\bar{a}$ -mi, Sk. 1-777...., origl. ga-skāmi; βαρύς (heavy)=Sk. gurús for origl. garus, βάριστος=Sk. ģarišthas, origl. garistas (heaviest), cf. Lat. grauis=*garu-i-s, Goth. kaúrs (heavy, earnest) for *kaúri-s, and this prob. for *kurr-i-s fr. *karr-i-s; βρέφος (neut. offspring, child), Sk. gárbha-s (masc. matrix, offspring), O.Bulg. žrěbe, žrěbici (to foal), Goth. kalbō (fem. cow-calf); Boiôt. βανά $=\gamma\nu\nu\eta$ (wife) with root vowel a retained, f.f. of both ganā, \sqrt{gan} (gignere); $\beta \acute{a}\lambda avos$ (acorn), cf. Lat. glans, gland-is (acorn); βίFος (life)=Sk. ģīvás, Lith. gývas, Goth. kvius, f.f. prob. gigvas (lively); βοῦς (bull)=Sk. and oright gāus; βι-βρώ-σκω (eat), $\beta o \rho - \dot{\alpha}$ (food), $\sqrt{\beta o \rho}$, $\beta \rho o$, oright gar, gra, Sk. \sqrt{gar} (swallow); Lat. (g) uor-are, Lith. gér-ti (drink), Scl. žrě-ti (swallow); e-ρeβ-os (gloom of lower world), cf. Sk. rág-as (gloom, dust), Goth. rikv-is (neut. darkness); √νιβ in χέρ-νιψ (water for washing hands) for $\chi \in \rho - \nu \iota \beta - \varsigma$, $\chi \in \rho - \nu \iota \beta - \varsigma$, Sk. $\sqrt{ni\acute{g}}$, origh. nig, in Gk. retained in $\nu l\zeta \omega$ (wash)=*νιγ- $\gamma \omega$.
- 2. Origl. d=Gk. δ (on $\zeta=\delta y$, cf. \S 68); $\sqrt{\delta o}$, origl. da (give), pres. δi - $\delta \omega$ - $\mu \iota$, origl. da- $d\bar{a}$ -mi; $\sqrt{\delta a}\kappa$ (bite), pres. $\delta \acute{a}\kappa$ - $\nu \omega$, Sk. $\sqrt{da}\varsigma$, origl. dak; $\sqrt{\delta a}\mu$ in $\delta a\mu$ - $\acute{a}\omega$, $\delta \acute{a}\mu$ - $\nu \eta \mu \iota$ (tame, bind), Sk. and origl. dam (domare); $\delta \acute{o}\mu o_{S}$ (house), Lat. domus, Sk. $dam\acute{a}s$ or $dam\acute{a}m$, Scl. domu; $\sqrt{F\iota \delta}$ (see), origl. \sqrt{vid} (uidere), pf. $Fo\imath \delta a$ (knew), Goth. vait, f.f. vi- $v\bar{u}ida$; $\sqrt{\dot{\epsilon}}\delta$, origl. and Sk. $\sqrt{\dot{s}}ad$ (sedere) in $\ddot{\epsilon}\zeta o\mu a\iota = *sed$ -yo-mai; $\sqrt{\dot{\epsilon}}\delta$, origl. and Sk. $\sqrt{\dot{a}}d$ in $\ddot{\epsilon}\delta$ - ω , $\ddot{\epsilon}\delta$ - $o\mu a\iota$ (eat, shall eat), Lat. ed-o, Goth. it-a, etc.
- 3. Gk. β, whose oright existence can be proved, is found very rarely (cf. § 46), e.g. βλη-χή (bleating), βλη-χάομαι (bleat), Lat. bāl-are, Sch. ble-ya, O.H.G. blā-zan; βραχύ-ς (short), Lat.

breu-is, fr. *bregu-is, Scl. brůz-û; $\beta\delta\acute{\epsilon}$ - ω (pedo), Bohem. bzdi-ti, § 63. Lith. bezd-ėti, Germ. fist (flatus uentris sine crepitu), thence fist-en (flatum uentris emittere), Scl.-Germ. thus with spirant bef. d (whether this spirant was inserted in Germ. or lost in Gk., H.G. f does not correctly correspond to b of other langg.), the f.f. of the root is thus bda or bsda = bad or basd.

Original momentary sonant aspirated consonants. § 64.

1. Origl. gh = Gk. χ (on $\chi y = \sigma \sigma$, cf. § 68), e.g. $\chi \dot{\eta} \nu$ (goose), cf. Germ. gans, f.f. gansis, Sk. $h\tilde{a}s\acute{a}$ -s, i.e. *ghansas, Lith. $\dot{z}as\acute{s}s$, Scl. $gas\check{s}$; $\sqrt{\chi}\nu$ in $\chi \dot{\epsilon}F-\omega$ (pour), $\chi \dot{\nu}-\sigma \iota s$ (pouring), Goth. $\sqrt{gu-t}$, H.G. gu-fs (giefs-en); $\sqrt{\dot{a}}\chi$, $\dot{a}\gamma\chi$ in $\ddot{a}\gamma\chi-\omega$ (throttle), $\ddot{a}\chi-\nu\nu\mu a\iota$ (am grieved), $\ddot{a}\chi-\nu\mu a\iota$ (id.) $\ddot{a}\chi-os$ (pain, grief), $\ddot{a}\chi-\theta os$ (burthen), $\ddot{a}\chi-\theta o\mu a\iota$ (am burthened), origl. agh, Sk. $\ddot{a}h$, Lat. ang, Goth. aggv; $\sqrt{\sigma \tau \iota \chi}$ in $\sigma \tau e \dot{\iota}\chi-\omega$ (go), $\sigma \tau \dot{\iota}\chi-os$ (rank), $\sigma \tau o \hat{\iota}\chi-os$ (rank, file), Sk. and origl. \sqrt{stigh} , Goth. stig in steigan (step vb.), staiga (path, the Sclavo-Lith. do not regard aspirates); $\sqrt{\lambda\iota\chi}$ in $\lambda e \dot{\iota}\chi-\omega$ (lick), Sk. lih, earlier rih, i.e. righ (lick), Goth. lig in bi-laig-on ($\dot{\epsilon}\pi\iota-\lambda e \dot{\iota}\chi-e\iota\nu$); $\sqrt{\mu\iota\chi}$ in \dot{o} - $\mu\iota\chi-\dot{\epsilon}\omega$ (urino), \dot{o} - $\mu\dot{\iota}\chi-\lambda\eta$ (mist), Sk. mih, i.e. migh in $m\acute{e}h$ -ami (urino), $m\ddot{e}gh$ -as (cloud), Germ. mig, e.g. Dutch $m\ddot{e}ge$ (urina); $\delta o \lambda\iota\chi os$ (long), Sk. $d\ddot{\iota}rghas$, f.f. darghas, etc.

§ 64. In ἐγγνίς (near) = Sk. āhús, i.e. *anghus (narrow),—the Goth. aygvus (narrow) corresponds to the aspirated fms., which we hold to be oright in this case, since we assign ἐγγ-ύς to √ἀχ, origh agh, in ἄγχ-ω, ἄχ-ομαι, etc. (so G. Curtius).

Other isolated cases in which Gk. sonants, mostly after nasals, stand for origl. aspp., are treated by G. Curtius (Gr. Et.² p. 460 sqq.).

Note.—In $\nu i\phi$ -a (acc. snow), $\nu i\phi$ -eró-s (snow-storm), $\nu i\phi$ -ei (it snows), ϕ stands for χ , cf. Lat. nix, niu-is, for *nig-s, *nigu-is, (v. post), ning-it; the root had an initial s lost in Graeco-Italic, cf. Lith. snig-ti (to snow), snig-as (snow), O.Bulg. snig-ü (snow), Goth. snair-s (snow), Zend $\sqrt{\text{sniz}}$ (snaež-enti, 3 pl. pres. 'it snows,' lit. 'they snow'), Sk. $\sqrt{\text{snih}}$ (be damp), f.f. of root is therefore snigh.

2. Origl. dh=Gk. θ (on $\theta y=\sigma \sigma$, cf. § 68), e.g. $\sqrt{\theta \epsilon}$, origl. dha (set), pres. $\tau i \cdot \theta \eta - \mu \iota$, Sk. and origl. $d\acute{a} \cdot dh\ddot{a} \cdot mi$, Goth. \sqrt{da} , (do), H.G. ta, e.g. in 1 pres. $tuo \cdot m$ fr. $*ti \cdot t\ddot{o} \cdot mi = dhadh\ddot{a}mi$; $\mu \dot{\epsilon} \theta \nu$ (intoxicating drink), Sk. and origl. $m \dot{a} dh \iota$, O.H.G. $m\ddot{\epsilon} t \iota$ (mead); $\sqrt{i} \theta$ in $a \ddot{\iota} \theta \cdot \omega$ (kindle), Sk. and origl. $\sqrt{i} dh$; $\dot{\epsilon} \cdot \rho \nu \theta \cdot \rho \dot{o}$ s (red), $\sqrt{\dot{\rho} \nu \theta}$, Sk. $rudhir \dot{a} \dot{s}$, origl. $rudh r a \dot{s}$, \sqrt{rudh} , Goth. \sqrt{rud} in $r a u d \cdot s$, H.G. $r u \dot{t}$ in $r \ddot{o} \dot{t}$, Lat. $r \ddot{u} f \cdot u \dot{s}$, etc.

Note.—In θερμός, Sk. gharmás (heat), Lat. formus, cf. Scl. grě-ti (to warm), Germ. warm fr. *gwarm, $\sqrt{\theta}$ ερ, θέρ-ομαι (am warm), θέρ-ος (neut. summer), origl. and Sk. ghar, θ stands where we should expect χ .

3. Origl. bh = Gk. ϕ ; $\sqrt{\phi}a$ (shine) in $\phi a - l\nu\omega$ (show), $\phi \acute{a}\sigma - \iota s$ (a showing), $\sqrt{\phi}a$ (speak) in $\phi \eta - \mu \acute{\iota}$, $\phi \acute{a} - \sigma \kappa \omega$ (say), $\phi \acute{a} - \tau \iota s$ (speech, rumour), $\phi \omega - \nu \acute{\eta}$ (voice), Sk. and origl. bha, Sk. $bh \acute{a} - m i$ (shine), $bh \~{a} - s$ (give light, shine), $bh \~{a} - \check{s}$ (speak), Lat. fa - ri; $\sqrt{\phi} \epsilon \rho$, 1 sing. pr. $\phi \acute{\epsilon} \rho - \omega$ (bear), Lat. fer, fero, Sk. and origl. bhar, $bh \acute{a}r - \bar{a}m i$, Goth. bar, $ba \acute{r}r a$; $\sqrt{\phi}\nu$ in $\phi \acute{\nu} - \omega$ (bring forth), $\phi \nu - \tau \acute{o}\nu$ (plant), Lat. fu in fu - turus, fu - i, Sk. and origl. bhu, O.H.G. pi in pi - m, weakened fr. pu, pi - um; $\nu \acute{\epsilon} \phi - os$ (cloud), $\nu \epsilon \phi \acute{\epsilon} \lambda \eta$ (a cloud), Sk. $n \acute{a}bhas$ (a cloud), O.H.G. $n \ddot{e}pal$ (cloud); $\mathring{o} - \phi \rho \acute{\nu} s$ (eyebrow), Sk. $bhr \~{u}s$, O.H.G. $pr \~{a}va$, etc.

Note 1.—In $\sqrt{\lambda a\beta}$ ($\lambda a\mu\beta \acute{a}\nu\omega$, $\emph{e}-\lambda a\beta$ -ov, take, seize) bes. § 64. $\lambda \acute{a}\phi$ - $\nu\rho$ ov (booty), $\emph{a}\mu\phi\iota$ - $\lambda a\phi$ - $\acute{\eta}$ s (clasping), Sk. \sqrt{labh} (keep, get), β is very prob. a representative of origh. bh, caused perh. by the nasalized pres. $\lambda a\mu\beta \acute{a}\nu\omega$, cf. supr. $\emph{e}\gamma\gamma\acute{v}$ s fr. \sqrt{agh} ; also $\beta\rho\acute{e}\mu$ - ω (roar) has β for origh. bh, cf. Lat. frem-o, Sk. $bhr\acute{a}m$ -ami (swarm, rove). On other isolated exx. cf. G. Curt. Gr. Et.² p. 460 sqq., Grassmann, Kuhn's Zeitschr. xii. 91 sqq.).

Note 2.— $\sqrt{F\rho\alpha\gamma}$ in $\rho\dot{\eta}\gamma$ - $\nu\nu\mu\iota$ (break, tear), $\rho\dot{\eta}\gamma$ - $\mu\alpha$ (rent), $\delta\iota a\dot{\rho}\dot{\rho}\dot{\omega}\dot{\xi}$ (broken through) for $*\delta\iota a$ - $F\rho\alpha\gamma$ -s has F for origh. bh (as in case-sf. origh. bh the bh may even be entirely lost, v subdeclens.), cf. Lat. \sqrt{frag} in frang-o, frag-men, frag-ilis, Goth. \sqrt{brak} in brik-an (break), pf. brak. The same change occurs in $\sqrt{F\alpha\gamma}$, $\ddot{\alpha}\gamma$ - $\nu\nu\mu\iota$ (break), $\dot{\alpha}$ - $\alpha\gamma$ - $\dot{\eta}s$ (unbroken), cf. Sk. \sqrt{bhaj} in bha- $n\dot{\alpha}$ - \dot{g} -mi (I break), bhangi-s (breakage). It is uncertain whether the roots bhag and bhrag are akin.

Roots which origly, began and ended with an asp. also lose in Gk. their initial asp., whereby there thus arises a tenuis (cf. sup. § 64). Thus e.g. $\pi \hat{\eta} \chi v$ -s (fore-arm) stands for * $\phi \eta \chi v$ -s, cf. Norse bog-r, O.H.G. buoc, like Sk. bāhú-s (arm) for *bhāghu-s; $\pi \nu \theta$ -μήν (base) for *φυθ-μην, like Sk. budh-nás (floor) for *bhudh-na-s, cf. O.H.G. bod-am, Lat. fu-n-d-us; πενθ-ερός (father-in-law), $\pi \epsilon \nu \theta$ - $\epsilon \rho \dot{\alpha}$ (mother-in-law), $\pi \epsilon \hat{\iota} \sigma$ - $\mu \alpha$ (bond, halser) for $\pi \epsilon \nu \theta$ - μa fr. $\sqrt{\pi \epsilon \nu \theta}$ for $\Phi \epsilon \nu \theta$ (bind), like Sk. bandh for *bhandh (in Sk. also 'relationship' derived fr. 'bonds,' e.g. bandh-u-s, a relation); so too the Goth. fm. band points to this (pres. bind-a, pf. band); √πυθ for *φυθ in πυνθ-άνομαι, πεύθ-ομαι (learn, ask), Sk. budh for *bhudh (be awake, know, be wise), Lith. \(\sqrt{bud}\) (bud-\(\text{e}ti\) be awake, \(bud-r\(\text{u}-s\)\) wakeful), O.Bulg. \(bud-\text{u}d\) (bud-eti be awake, bud-iti wake), Goth. bud (biud-an bid, though with a considerable change of meaning). A perfectly analogous phenomenon is seen in redupln.-laws (§ 68); cf. Grassm. Kuhn's Zeitschr. xii. 110 sqq.

CONSONANTAL PROLONGED-SOUNDS.

§ 65.

Origl. spirants; y, s, v (the changes of origl. y, v have been treated at length by G. Curt. Gr. Et.² pp. 491-611).

- § 65. 1. Origl. y = Gk. ι , ϵ , ζ , $\dot{\epsilon}$, is Kost (on y in ζ , $\sigma\sigma$, cf. § 68, 1 b, d, e). From assimiln. of y to other consonn. ($\kappa\epsilon\dot{\rho}\dot{\rho}\omega$ for * $\kappa\epsilon\rho$ - $y\omega$, $\dot{\epsilon}\lambda\dot{\alpha}\sigma\sigma\omega\nu$ for * $\dot{\epsilon}\lambda\alpha\chi y\omega\nu$, etc.), it follows that it was not lost till late in Gk. To the existence of y in Gk. evidence is given by the operation of the consonantal beginning of Hom. ω s (as)=origl. $y\bar{a}t$ (abl. of st. ya-), and that of $\tilde{\iota}\epsilon\tau$ 0, $i\dot{\epsilon}\mu\epsilon\nu$ 0s, etc., origl. \sqrt{ya} (go); even the writing of F for y in $F\dot{\epsilon}\tau\iota$ and $T\lambda\alpha\sigma(aFo)$ proves it, on which point we may follow G. Curt. Gr. Et.² no. 606, p. 354.
 - a. Gk. ι =origl. y, e.g. in the common st.-formative sf. origl. ya, Gk. ιo , thus $\pi \acute{a}\tau \rho$ - ιo - ς (fatherly), origl. patar-ya-s; $\tau \epsilon \lambda \epsilon \acute{\omega}$, thence $\tau \epsilon \lambda \acute{\epsilon} \omega$ (finish), for * $\tau \epsilon \lambda \epsilon \sigma$ - $y\omega$, pres. fm. in ya fr. st. $\tau \epsilon \lambda \epsilon \varsigma$ - $(\tau \acute{\epsilon} \lambda o \varsigma$, neut. end), etc., vid. § 26.

Here there occurs also a transposition of origl. y after a liquid cons. to Gk. ι before the liquid, e.g. $\phi\theta\epsilon\ell\rho\omega$ (destroy) fr. $^*\phi\theta\epsilon\rho$ - $y\omega$, etc., v. § 26, 3.

- b. Gk. ϵ =origl. y, e.g. $\kappa\epsilon\nu\epsilon\delta\varsigma$ (empty) for * $\kappa\epsilon\nu\gamma\delta\varsigma$, as is shown by Aiol. $\kappa\epsilon\nu\nu\delta\varsigma$ fr. Sk. $\varsigma\bar{u}n\gamma\alpha$ -s beside * $\kappa\epsilon\nu\gamma\delta$ - ς we may infer an origl. $k\nu\alpha\eta\gamma\alpha$ -s common to both; $\sigma\tau\epsilon\rho\epsilon\delta\varsigma = \sigma\tau\epsilon\rho\dot{\rho}\delta\varsigma$ (hard, solid) fr. * $\sigma\tau\epsilon\rho$ - $\gamma\delta\varsigma$; $\theta\nu\rho\epsilon\delta\varsigma$ (door-stone, door-shaped shield) fr. * $\theta\nu\rho\gamma\delta\varsigma$, with origl. sf. $\gamma\alpha$, fr. $\theta\nu\rho\alpha$, door. v. § 26, 2.
- c. Gk. ζ =origl. y, e.g. $\sqrt{\zeta}v\gamma$ in $\zeta\epsilon\dot{v}\gamma v\nu\mu\iota$ (bind), $\zeta v\gamma\dot{o}\nu$ (yoke), Lat. iug-um, Sk. $yug\dot{a}m$, etc., Lat. Sk. origl. $\sqrt{y}ug$ (iungere); $\zeta\dot{\epsilon}\omega$ (seethe, intr.), $\sqrt{\zeta}\epsilon$ s, cf. $\dot{\epsilon}$ - $\zeta\epsilon\sigma$ - $\mu a\iota$, $\zeta\epsilon\sigma$ - $\tau\dot{o}$ s, O.H.G. $j\ddot{e}s$ -an (H.G. $g\ddot{a}ren$), f.f. of root is yas; $\zeta\dot{\epsilon}Fa$ (spelt), Lith. $y\dot{a}vas$, pl. $yava\dot{\iota}$ (barley), Sk. st. yava- (grain).
- Note.—A d has been here developed bef. origl. y, for $\zeta=dz$ or dy, precisely as in other langs. we find a change fr. y to dy, and further to $d\ddot{z}$, e.g. Lat. maiorem, middle-Lat. madiorem. It. maggiore, i.e. madžore; Prākrt ģutta-, i.e. džutta-=yukta-. G. Curtius (Gr. Et.² p. 550 sqq.) compares this dy for y with gv for v, which appears not unfrequently in later periods of speech (e.g. It. guastare fr. Lat. uastare). Curt. also adds δu =origl. y, in sf. $\delta \iota o$ (e.g. $\kappa \rho v \pi \tau \Delta \cdot \delta \iota o$ s, secret)=origl. ya, and $\delta \epsilon = \delta v = origl$. y in sf. $\delta \epsilon o$ (e.g. $\delta \delta \epsilon \lambda \phi \ell \cdot \delta \epsilon o$ -s, nephew), and

further δ =origl. y by entire loss of y after the δ wh. it pro- \S 65. duced, through intermed step. * δy . This case is indisputable in Boiôt. $\delta \nu \gamma \delta - \nu$ (yoke) = * $\delta \gamma \nu \gamma \delta - \nu = \sin \beta$. $\gamma \nu \gamma \delta - \nu = \sin \beta$. (yoke); further G. Curt. assumes it in $\delta \eta$ (iam) for * $dy\bar{a}$, * $y\bar{a}$, perh. an instr. pron. st. origl. ya, cf. Lat. iam, Lith. yau, Goth. H.G. ju, and others fr. same st.; it then becomes evident that the δ of apparent sf. $-\iota\delta$ - is nothing but iy for i, e.g. $\mu\eta$ - $\nu\iota$ -os and $\mu \dot{\eta}$ - $\nu \iota \delta$ -os fr. $\mu \dot{\eta}$ - $\nu \iota$ -s (wrath; \sqrt{ma} , think, also be wroth, sf. ni) $\theta \acute{\epsilon} - \tau \iota - 0$ and $\theta \acute{\epsilon} - \tau \iota \delta - 0$ (each case formed by sf. ti), also $\phi \rho \rho \nu - \tau \iota \delta - 0$, ἔριδ-ος bes. ἔρι-ν, etc.; everywhere therefore we must presuppose in these cases a Gk. f.f. such as *μη-νιy-ος, *θε-τιγ-ος. Also the sf. $a\delta$ and others with δ are due to oright y acc. to Curtius. Though we cannot treat in detail of the deductions of G. Curtius, we may remark in general on his opinion, that whilst y is remarkably common in st.-formation of Indo-Eur., d is a rare element, so that we see scarcely any other possibility of bringing the above-named Gk. fms. into harmony with those of the kindred lange. The assumption of so many terms. in special cases of later Gk. forms is, however, not perfectly certain; nevertheless that $y=\delta$ in $\delta v \gamma \delta v$ is beyond doubt. Further the dental certainly corresponds to oright y in $\chi\theta\epsilon_S=*\chi\delta\epsilon_S$, *χδyes, *χyes=Sk. hyas (yesterday), f.f. ghyas, cf. Lat. her-i, hes-ternus, Goth. gis-tra-dagis. What we admit in these cases is possible in others too.

- d. Gk. eorigl. y, e.g. $\tilde{\eta}\pi a \rho$ (liver), cf. Lat. ieeur, Sk. $y \dot{a}krt$; $\check{a}\gamma \iota o s$ (holy), Sk. $y \dot{a} \dot{y} y a s$ (to honour, worship), origl. $\sqrt{y} a g$; $\check{a}\rho a$ (season), cf. O.Bulg. $j \bar{a}re$ (n. year), Goth. $y \bar{e}r$, O.H.G. $j \bar{a}r$; $\dot{v}\sigma \mu \acute{v}r$ (retained only in loc. sg. $\dot{v}\sigma \mu \acute{v}r \iota \iota$), $\dot{v}\sigma \mu \acute{v}r \eta$ (combat), $\dot{v}\dot{s}s$ bef. μ for $\dot{v}\theta = Sk$. yudh (fight), e.g. in yudh-ma-s (fight, fighter), yudh-māna-m (fight), which agrees with the Gk. in the sf. also; $\dot{v}\mu e \hat{\iota}s$ (you), cf. Sk. $yu\check{s}m\acute{a}-t$ (abl.; it here depends of course from the stem only), Lith. $j \bar{u}s$ (you), etc.
- e. In Gk. y is entirely lost (cf. § 27), e.g. initial y in Aiol. τμμε-ς (you), cf. Sk. yušmά-t (abl.); ὅττι in Sappho fr. st. ὁ-=origl. ya-. In the middle of words this loss is more frequent; after consonn., e.g. in termn. of fut. -σω for *σyω, ef. Dôr. fm. -σίω=Sk. and origl. -syā-mi; betw. vowels the loss of y is commonest of all, as in the termns. of derivative vbs. -έω, -άω, -όω, which alike represent the origl. and Sk. -ayāmi, e.g. φορέω

§ 65. (bear)=Sk. and origl. bhār-áyāmi; in cases like τελέω fr. τελείω, for *τελεσ-γω, with origl. sf. γα fr. st. τελες- (τέλος neut. end), in -υω for *-υγω (φύω earlier φυίω, f.f. bhuyāmi, etc.); in gen. sg. masc. and neut. of o-st., origl. a-st., e.g. ἵππου fr. ἵπποο, and this certainly fr. ἵπποιο, which stands for *ἱπποσγο, origl. akvasya; πλέον (more) bes. πλεῖον, f.f. pra-yans, comp. fr. √par, pra in πολ-ύ- (many), f.f. par-u-. Thus in most cases, before y entirely disappeared, it became i.

Note.—The assimiln. of y to other consonn., e.g. $\lambda\lambda = \lambda y$ and the like, and its combination with gutt. and dentt. as ζ , $\sigma\sigma$, is treated of under 'sound-laws,' § 68.

- 2. Origl. $s = Gk. \sigma$, ', is lost.
- a. Gk. σ =origl. s in terms. and bef. mutes, more rarely bef. vowels, e.g. $\sqrt{\epsilon}$ s, origh. as (esse), $\epsilon \sigma - \tau i$, Sk. and origh. $\alpha s - ti$ (he is); st. $\mu \epsilon \nu \epsilon \varsigma$ - n. $\mu \epsilon \nu \circ \varsigma$ (might, strength), oright. and Sk. mánas; sf. of nom. sg. masc. fem. -s, e.g. $\pi \acute{o}\sigma \iota$ -s, $\acute{o}\psi = F\acute{o}\pi$ -s, Sk. and origl. páti-s, origl. vāk-s; sf. gen. sg. -os, origl. -as, e.g. Foπ-ős, origl. vāk-as, Sk. vāk-ás, etc.; $\sqrt{\sigma \tau o \rho}$, Sk. and origl. star, e.g. in 1 sg. pres. στορ-έννυμι, στόρ-νυμι (spread), Sk. $str-n\delta mi$, origl. star-naumi, etc.; $\sqrt{\sigma}\tau a$, $\ell \sigma \tau \eta \mu \iota$ (set), origl. sta-stā-mi, Lat. and oright sta; $\sigma \hat{v}_s$ bes. \hat{v}_s (swine), Lat. sūs, O.H.G. $s\bar{u}$; $\sigma \in \beta$ -o $\mu a \iota$ (be in awe of), $\sigma \in \mu$ - $\nu \circ \varsigma$ (awful) for $\sigma \in \beta$ - $\nu \circ \varsigma$, $\sigma \circ \phi - \delta \circ s$ (wise), and others show likewise init. s bef. vowel; $\sigma i \gamma \dot{a} \omega$ (am silent) bes. O.H.G. swigen has exceptionally σ for older sv, which regularly should become'; it is also found in $\sigma \in \lambda - \eta \nu \eta$ (moon), fr. origl. \sqrt{svar} (shine), and perh. in some other instt., cf. $\sigma \acute{\epsilon} \lambda$ -as (sheen), $\acute{\epsilon} \lambda$ - $\acute{a} \nu \eta$ (torch), with usual sound-change, fr. same root (cf. G. Curt. Gk. Et.² p. 625). This σ bes., we must prob. consider to be an archaism, which has been partially retained.

b. Gk. '=origl. s, when it is initial before a vowel or origl. v, e.g. $\sqrt{\epsilon}\delta$, $\tilde{\epsilon}\delta$ -os, $\tilde{\epsilon}\delta$ - $\rho\alpha$ (seat), $\tilde{\epsilon}\zeta o\mu\alpha\iota$ (set myself, sit) for * $\epsilon\delta$ - $\gamma o\mu\alpha\iota$, Lat. sed, origl. and Sk. sad (sit); $\epsilon\pi\tau\dot{\alpha}$ (seven), Lat. septem, origl. and Sk. saptán-; $\sqrt{\epsilon}\pi$ in $\epsilon\pi$ - ω , $\epsilon\pi$ - σ - σ - σ (follow),

Lat. sequ-or, Sk. \sqrt{sak} , origl. sak; $\tilde{v}\pi\nu\sigma$ (sleep), origl. and Sk. § 65. svápnas; $\tilde{\eta}\delta\tilde{v}$ s (sweet), f.f. Sk. and origl. svādús; pron. $\sqrt{\dot{\epsilon}}$, $\dot{\delta}$, in où, oì, $\tilde{\epsilon}$ (sui, sibi, se), os (suos), origl. and Sk. sva-; $\dot{\epsilon}\kappa\nu\rho\dot{\delta}$ s (father-in-law), f.f. svakuras, Sk. çváçuras for sváçuras, Lat. socer, Goth. svaihra, etc.

Note.—It is not probable that the ' (which regularly represents s) in words which origly, began with sv compensates for the v, and that s afterwards entirely disappeared from before it. If the earlier lang, shows F even then, we may probassume that the sign of the asp, was not written bef. F, and that we must theref. read $F\acute{e}$ and the like as hve; the long duration of s in Gk, seems proved by parallel fms. in diall., such as $\sigma\phi\acute{o}s$.

Not uncommonly we find medial after vowel transferred to initial 'bef. vowel; e.g. ἰερός (strong, holy) fr. *ἰέρος, *ἰσερο-ς =Sk. $i\check{s}ir\acute{a}$ -s (strong, fresh); $\epsilon i\pi\acute{o}\mu\eta\nu$ fr. $*\dot{\epsilon}$ - $\dot{\epsilon}\pi o\mu\eta\nu$, $*\dot{\epsilon}$ - $\sigma\epsilon\pi o\mu\eta\nu$, $\sqrt{\epsilon}\pi$ (follow) for *σεπ, origl. sak; είστήκειν fr. *έ-έστηκειν, *έ-σεστηκειν, $\sqrt{\sigma}$ τα (stand), redupld. sa-sta, *σε-στα; εΰω bes. eυω (kindle), vis, origh. us, Sk. uš (burn), f.f. ausāmi, in Gk. first *εὐσω, *εὐώ; έώς (dawn) for *έως fr. *εὐώς, *έΓώς, cf. Aiol. $a\ddot{v}\omega_{S}$ for * $a\dot{v}\sigma\omega_{S}$ ($\dot{\eta}\dot{\omega}_{S}$ by compens. lengthening for * $aF\sigma\omega_s$), f.f. of st. is aus-as-, cf. Sk. $u\check{s}$ - $a\check{s}$ - (f. dawn), fr. same √us, Lat. aurora for *aus-os-a, likewise, as in Gk., with stepformn. of root; $\hat{\eta}\mu\alpha\iota$ (sit) for $*\hat{\eta}\sigma-\mu\alpha\iota$, cf. Sk. $\acute{a}s-\bar{e}$ for $*\bar{a}s-m\alpha\iota$, here in Gk. the init. ' became fixed by analogy throughout, and is added also in $\hat{\eta}\sigma$ - $\tau a\iota$ for $*\hat{\eta}\sigma$ - $\tau a\iota$ =Sk. $\hat{a}s$ - $t\bar{e}$; $\hat{\eta}\mu \epsilon \hat{\iota}s$ (we), cf. Sk. as-má-t, ημείς thus stands by compens. lengthening for * $\dot{a}\sigma$ - $\mu\epsilon\iota\varsigma$, whence the parall. fm. $\ddot{a}\mu\mu\epsilon\varsigma = *\dot{a}\sigma\mu\epsilon\varsigma$, in which the σ has become assimilated to the μ ; in $\eta \mu \epsilon \hat{\imath}$ therefore the real s is doubly represented.

Note.—At first sight $\dot{\epsilon}\dot{o}_{S}$ bes. $\sigma\phi\dot{o}_{S}$ and \ddot{o}_{S} seems clearly fr. a Gk. f.f. * σFo_{S} , viz. $\dot{\epsilon}\dot{o}_{S}$ for * $\dot{\epsilon}\dot{o}_{S}$ (ehos) fr. * $\dot{\epsilon}'Fo_{S}$ (ehvos), and this fr. * $\dot{\epsilon}\sigma Fo_{S}$, * $\dot{\epsilon}$ - σFo_{S} for * σFo_{S} , with the favourite vowel-prefix, which does not occur in $\sigma\phi\dot{o}_{S}$ and \ddot{o}_{S} ; but when we recollect the Lat. suus, earlier souos, i.e. *seuos (§ 33, 2), we are

§ 65. led back to a special Gr.-Ital. f.k *sevos (cf. Lith. sávo fr. an unused *sava-s suus), which necessarily becomes in Lat. souos, suus, in Gk. έFos; then too we must understand τεός=*τεFos=tuus, i.e. *tovos, *tevos, Lith. tàva-s (tuus). Cf. § 26 n.

Sometimes appears as a later addition; it seems that the sensibility of the lang. to the distinction betw. ' (h) and ' (Semit. 'elif') began to decay rather early (cf. c.), thus e.g. in lππος (horse) fr. *iκFoς, cf. the extant fm. lκκος, Lat. equos, Sk. áçvas, f.f. akvas; that occurs here only in later times is proved by forms like Λεύκιππος, "Αλκιππος, which otherwise would have been pronounced *Λευχυππος, *'Αλχυππος; ὕστερος (later)=Sk. út-taras; v is so frequently an initial sound, for origl. su, sva, that the more uncommon beginnings which would properly be \dot{v} , followed the analogy of \dot{v} ; here belongs prob. θδωρ (water), cf. Boiôt. οὔδωρ, Lat. unda, Sk. ud-am, ud-akám (water), Goth. vatō, Lith. vand¾ (with earlier vad=ud); $\mathring{v}\phi$ - η , ύφ-ος (web), $\dot{\nu}$ φ-αίνω (weave), cf. Germ. \sqrt{wab} (weave), Sk. ūrna-vabh-i-s (m. spider, lit. woolweaver), √vabh, fr. which therefore may arise regularly a fm. ubh, Gk. υφ; for *υδ, *υφ, in these words, we must presuppose an origl. vad, vabh, for which through loss of a arose ud, ubh.

c. In Gk. origl. s, or rather $^{\circ}$, which arose fr. origl. s, is entirely lost (cf. \S 28). This occurs regularly in middle of words betw. vowels, and more rarely in initio bef. vowels, whilst it is regular bef. initial ν and ρ ; e.g. $\mu\acute{e}\nu o\varsigma$, gen. $\mu\acute{e}\nu o\upsilon\varsigma$ fr. $\mu\acute{e}\nu e\sigma\varsigma$, * $\mu e\nu e\sigma o\varsigma$, f.f. and Sk. mánasas; $\phi\acute{e}\rho\eta$ fr. * $\phi e\rho e\sigma a\iota$, origl. bharasai; $\mu \upsilon\varsigma$ (mouse), gen. $\mu \nu \acute{o}\varsigma = \text{Lat.}$ mus, muris, both fr. *musas; Fu\'os (poison) for * $F\iota \sigma o\varsigma = \text{Lat.}$ uirus, Sk. $vi \check{s}a$ -s and $vi \check{s}a$ -m; etc. Yet we also find s kept betw. vowels, e.g. $\delta l \delta o - \sigma a\iota$, $\tau l \theta e - \sigma a\iota$, $\ell \sigma \tau a - \sigma a\iota$.

In initio bef. vowels 'has fallen out in \dot{a} - (for and bes. \dot{a} -), \dot{o} =origl. and Sk. sa- (with), e.g. in \dot{a} -δελφειός, \dot{a} -δελφός (brother, lit. couterinus, cf. δελφύς uterus); \ddot{a} -λοχος (spouse, consors tori, cf. λέχος, bed); \ddot{o} -πατρος (having the same father, cf. πατήρ), etc., bes. \ddot{a} -πας (all); \dot{e} τεός (true, correct)=Sk. $saty\dot{a}$ -s; $\sqrt{\dot{e}}\chi$

(in $\[\tilde{\epsilon}\chi - \omega \]$ hold, have)=Sk. $s \neq h$ ($s \acute{a}h - at \bar{e}$, he holds, carries; this § 65. $\[\sqrt{\hat{\epsilon}\chi} = sagh \]$ is confused in Gk. with $\[\sqrt{vagh} \]$, uehere); $\[\tilde{\iota}\delta \acute{\iota}\omega \]$ (sweat), Sk. and f.f. $\[sv \acute{a}d y \bar{a}m \acute{a}m \acute{a}m \acute{a}m \acute{b}es. \[\tilde{\iota}\delta - \rho \acute{\omega}s \]$ (sweat); $\[\tilde{\eta}\delta - \omega s \]$ (pleasure, delight) bes. $\[\tilde{\eta}\delta - \acute{\omega}s \]$ (sweet)=Sk. and origh. $\[sv \ddot{a}d - \acute{u}s \]$, $\[\sqrt{svad}; \[o\tilde{\upsilon}\lambda o - s \]$ (Old-Ep. and Iôn.) bes. $\[\tilde{\upsilon}\lambda o s \]$ (whole), Gk. f.f. $\[solvo - s = \text{Lat.} \]$ $\[saluo - s \]$, $\[solvo - s = \text{Sk.} \]$ $\[saluo - s \]$ (old-Ep. and Iôn.) bes. $\[\tilde{\upsilon}\lambda o s \]$ (whole), Gk. f.f. $\[solvo - s = \text{Lat.} \]$ $\[saluo - s \]$, $\[solvo - s = \text{Sk.} \]$ $\[saluo - s \]$, $\[se \]$ $\[c - \sigma \pi a \lambda - \kappa a \]$, $\[e - \sigma \pi a \lambda - \kappa a \]$, $\[e - \sigma \pi a \rho - \mu a \iota \]$, $\[e - \sigma \pi a \rho$

Note.—The st. $\partial \nu \tau$ - in $\partial \nu = *\partial \nu \tau$ -s, $\partial \partial \sigma \alpha = *\partial \nu \tau \nu \alpha$, $\partial \nu = *\partial \nu \tau \tau$ origl. as-ant-, pres. part. act. of origl. \sqrt{as} (esse), only apparently belongs here. The earlier fms. of this part. $\dot{\epsilon}\dot{\omega}\nu$, etc., point to a once-existent fm. $*\dot{\epsilon}\dot{\omega}\nu\tau$ -, $*\dot{\epsilon}\sigma$ -o $\nu\tau$ -, with $\sqrt{\dot{\epsilon}}$ s preserved, fr. which fm. the s regularly dropped out, $*\dot{\epsilon}\sigma$ -o $\nu\tau$ - thus became $\dot{\epsilon}o\nu\tau$ -, later the ϵ fell off, and thus arose $\dot{\partial}\nu\tau$ -.

s falls away bef. ν in $\nu\nu\delta$ s (bride, daughter-in-law), Lat. nurus, but O.H.G. snur, snura, Sk. snušā, O.Bulg. snucha, accordingly we must assume also a Gk. f.f. * $\sigma\nu\nu\sigma\sigma$ -s; $\checkmark\nu\nu$ in $\nu\epsilon$ F- ω (swim), impf. however in Hom. ϵ $\nu\nu\epsilon\sigma\nu$ fr. * ϵ - $\sigma\nu\epsilon$ F- $\sigma\nu$, Sk. and origh. \checkmark snu (flow, drip).

s is lost bef. ρ in $\sqrt{\rho}\nu$ (flow), $\dot{\rho}\dot{\epsilon}\omega$, $\dot{\rho}\nu\tau\dot{\delta}s$ =Sk. and origh. sru, Germ. stru, with inserted t, in strom, Lith. sru and stru, Sch. stru in o-strov- \ddot{u} ($\pi\epsilon\rho\dot{l}\dot{\rho}\dot{\rho}\nu\tau\sigma s$, i.e. isle). Also here s is preserved by assimiln. to ρ , e.g. $\dot{\epsilon}\dot{l}\dot{\rho}\dot{\nu}\eta\nu$, $\dot{\epsilon}\dot{l}\dot{\rho}\dot{\rho}\dot{\nu}\sigma\sigma$ for $*\dot{\epsilon}-\sigma\rho\nu-\eta\nu$, $*\dot{\epsilon}-\sigma\rho\epsilon\nu-\sigma\alpha$.

Also in $\sqrt{\mu\epsilon\rho}$ in $\mu\epsilon\rho$ - $\mu\epsilon\rho$ -os (careful), $\mu\epsilon\rho$ - $\iota\mu\nu\alpha$ (care), $\mu\alpha\rho$ - $\tau\nu$ s (witness), as in Lat. me-mor and Germ. $m\bar{a}ri$ (felt), the s is lost which is preserved in Sk. smar, pres. $sm\alphar\bar{a}mi$ (I remember, recall). The same loss perh. occurs elsewhere, though $\sigma\mu$ was not disliked as an initial sound.

Before other sounds the loss of s is rarer, yet cf. ταῦρο-ς (bull), Lat. tauru-s, O.Bulg. turŭ, with Sk. sthūrά-s (bull), Zend

§ 65. ctaora- (larger cattle, draught-oxen), Goth. stiur (bull, calf); sts. the interchange betw. στ and τ is prob. merely a dialectical one, e.g. τέγ-ος bes. στέγ-ος (roof), στέγ-ω (cover), Lith. stóg-as (roof), stég-ti (to cover), Sk. √sthag, origl. stag (cf. Lat. teg-o, Germ. decken, √dak, without initial s). For further exx. of this phenomenon, which is hard to decide upon, vid. G. Curt. Gr. Et.² p. 621 sqq.

The assimiln. of s to other consonn. is treated, \S 68; the loss of s with compens. lengthening, \S 28.

- 3. Origl. v = Gk. v, F, which was lost in the later lange.; origl. v is expressed by c.
- a. Gk. v=origl. v, e.g. $\delta \dot{v}\omega$, $\delta \dot{v}o$, which bes. $\delta \dot{\omega} \delta \epsilon \kappa a$ proves an early Gk. st. $\delta Fo=\text{Sk.} dva$; the same holds good in $\kappa \dot{v}\omega v$ (dog), bes. Lat. canis for *quani-s, Sk. $\varsigma v\bar{a}$ (nom. sing. for * ςvan -s, st. ςvan -, ςun -), and in some other cases. It is very hard to decide whether v or u was the origh. here; perh. uv (Engl. w) is the earliest.

On the Aiolic vocalisation of v between vowels ($\chi \epsilon \nu \omega = \chi \epsilon F \omega$, etc.), so too on the transposition of v near liquid consonants, as e.g. $\gamma o \nu \nu \delta s = \text{Aiolic } \gamma \delta \nu \nu \sigma s$ from * $\gamma o \nu F \sigma s$, st. $\gamma o \nu \nu \nu$ - (knee), with -0s of the gen. sg., before which ν , that is ν , passes over into F, $\delta o \nu \rho \delta s$, $\delta o \nu \rho \delta \tau \sigma s$, fr. * $\delta o \rho F \sigma s$, * $\delta o \rho F \sigma \tau \sigma s$, from which are explained also $\delta o \rho \delta s$, $\delta \delta \rho \sigma \tau \sigma s$, by loss of ν , cf. nom. $\delta \delta \rho \nu$ (spear), ν . supra § 26 b, 1, 3.

b. Gk. F,1 which was lost in the later stage,=origl. v (cf. § 27), e.g. Foîvos (wine), cf. Lat vinum, O.Lat. vinom, f.f. of st. vaina- (or, acc. to Gk., vaina-); Foî κ os (house), Lat. vinom, i.e. O.Lat. vinom Germ. vinom Germ. vinom Germ. vinom Germ. vinom (work), vinom Germ. vino

¹ J. Savelsberg, "de digammo eiusque immutationibus dissertatio," pars i. Aquisgrani, 1864; pars ii. 1866.

f.f. $viv\bar{a}ida$; $\sqrt{Fe\pi}$, speak=Lat. uoc for *uec, Sk. vak, origl. vak, § 65. e.g. in $F\acute{e}\pi$ -os (word)=Sk. $v\acute{a}k$ -as (speech); $\emph{ö}F\iota s$ (sheep)=Lat. ouis, Lith. and origl. avis; $\emph{o}ov$ for * $\emph{a}F\iota ov$, f.f. $\emph{a}vya$ -m, fr. origl. avi-s, Lat. aui-s (bird); $v\acute{e}Fos$ (new)=Lat. nouus for *neuos, Sk. and f.f. $n\acute{a}va$ -s; $\pi\lambda\acute{e}F$ - ω (sail), $\sqrt{\pi\lambda v}$ =Lat. *plou-o for *pleu-o (pluo), Sk. and origl. $pl\acute{a}v$ -ami; $p\acute{e}F$ - ω (flow), $\sqrt{p}v$, origl. and Sk. $sr\acute{a}v$ -ami, \sqrt{sru} , of. $p\acute{e}\hat{v}$ - μa (stream); sf. $-Fev\tau$ -=Sk. and origl. -vant- (e.g. in $\sigma\tau ov\acute{o}$ - $Fe\sigma\sigma av$ =- $Fe\tau$ -yav, with loss of nasal); $va\^{v}$ s (ship), gen. $v\~{a}F\acute{o}s$ =Sk. and origl. $n\~{a}us$, gen. $n\~{a}v$ - $a\acute{s}s$; after consonn. e.g. in $\delta\omega\acute{o}e\kappa a$ (twelve), $\delta\is$ (twice), for * $\delta F\omega$ - $\delta e\kappa a$ * $\delta F\iota$ -s, st. δFo -, $\delta F\iota$ -, origl. dva- (cf. $\delta\acute{v}o$); $\delta op\acute{o}s$, $\gamma\acute{o}va\tau os$, fr. * $\delta op\acute{F}os$, * $\gamma ov\acute{F}a\tau os$, cf. $\delta\acute{o}v$ u (spear), $\gamma\acute{o}v$ u (knee), etc.

Note.—Thus vy can disappear in medio betw. vowels; this occurs in sf. tav-ya, formed by ya and step.-formn. of stem termn. of abstracts in tu, sounded in Gk. as $\tau \acute{e}o$, e.g. $\delta o \tau \acute{e}os$ (dandus)=Sk. $d \ddot{a} t \acute{a} vyas$; $\theta e \tau \acute{e}os$ (ponendus)=Sk. $d h \ddot{a} t \acute{a} vyas$.

c. Gk. '=origl. v in $\ell\sigma\pi\epsilon\rho\sigma$ s, $\ell\sigma\pi\epsilon\rho\alpha$ (evening), cf. Lat. uesper, uespera; $\ell\sigma\tau\omega\rho$ bes. $\ell\sigma\tau\omega\rho$, a fm. which we expect according to $F\ell\delta$ - $\mu\epsilon\nu$, st. $F\ell\delta$ - $\tau\rho\rho$ - (knowing, witness), thence $\ell\sigma\tau\rho\rho$ - $\ell\alpha$ (questioning, history), $\sqrt{F\ell\delta}$; $\ell\nu\nu\nu\mu\iota$ (clothe), $\ell\ell\mu\alpha$ (garment), Aiol. $F\ell\mu\alpha$ =* $F\ell\sigma$ - $\nu\nu\mu\iota$, * $F\ell\sigma$ - $\mu\alpha$, $\ell\rho$ - $\ell\sigma$, cf. Lat. $\ell\rho$ - $\ell\sigma$. Sk. and f.f. of $\ell\rho$ - $\ell\sigma$ is may, however, here have arisen also fr. $\ell\sigma$, and then been transposed: cf. supr. 2 b.

Note.—In isolated exx. β =origl. v, β ούλομ α ι (I will), which we hold stands for * β ολνομ α ι (cf. Sk. $vrn\acute{e}$, f.f. var-na-mai); to which Aiol. β όλλομ α ι and β όλλ α = β ουλ $\acute{\eta}$ (will, council) seem to bear evidence; ov would thus arise fr. o by compensatory lengthening, in place of the lost v; $\sqrt{\beta}$ ολ for *Fολ corresponds to the Lat. uel, uol (in uel-le, uol-t), Sk. and origl. var (choose, will); $\emph{δροβο-5}$ (vetch) bes. Lat. eruo-m, O.H.G. $arawei_{\it{ζ}}$, cf. H.G. erb/se. For other exx. of this correspondence of sound v. G. Curt. Gr. Et. 2 p. 514 sqq. Dialectically β for origl. v occurs more often, e.g. Lakôn. βέργον, βιδε $\^{v}$ ν, for Fέργον (work), Fιδε $\^{v}$ ν (see), origl. \sqrt{varg} , \sqrt{vid} ; Lesb. Aiol. βρίζα (root), βρόδον (rose), for Fρίζα, Fρόδον, etc. Yet it is not unlikely that here (except in comb.

§ 65. βρ=Fρ) β is practically only a character representing the vsound instead of F.

Origl. v is said to be= μ in $a\mu\nu\delta$ s (lamb) for * $aF\iota$ - ν 0-s, fr. origl. avi-s, Gk. $\delta F\iota$ -s (sheep), and in other single instt. more or

less doubtful (G. Curt. p. 521).

Still more doubtful is the change from v to γ (G. Curt., p. 527 sqq.).

On the assimilation of v to other consonal e.g. $\tau \acute{e}\sigma\sigma\alpha\rho\epsilon\varsigma = *\tau\epsilon\sigma F\alpha\rho\epsilon\varsigma$, * $\tau\epsilon\tau F\alpha\rho\epsilon\varsigma$, v. 'sound-laws.'

§ 66. Nasals.

Before gutturals in Gk. the nasal becomes guttural, origl. nk, ng, ngh=Gk. $\gamma \kappa$, $\gamma \gamma$, $\gamma \chi$; bef. labials it is labial. Accordingly the radical nasal, origl. n, which occurs after the root in the case of certain present-forms, remains, as in $\tau \dot{\epsilon} \mu - \nu \omega$ (I cut; cf. aor. $\ddot{\epsilon} - \tau \alpha \mu - o\nu$), is ν bef. dentt., e.g. $\lambda \alpha \nu \theta - \dot{\alpha} \nu \omega$ (escape notice), cf. $\ddot{\epsilon} - \lambda \alpha \theta - o\nu$; it becomes μ bef. labb., e.g. $\lambda \alpha \mu \beta - \dot{\alpha} \nu \omega$ (take), cf.

 $\tilde{\epsilon}$ -λαβ-ον; γ bef. gutt., e.g. λαγχ-άνω (get by lot), cf. $\tilde{\epsilon}$ -λαχ-ον. § 66. The same interchange is seen besides naturally in compds. where συν- is changed to συμ-, συγ-, according to the quality of the following conson.

Note $1.-\sqrt{\gamma}a\mu$ in $\gamma\acute{a}\mu$ -os (marry), $\gamma a\mu$ -é ω (marry), is, like Lith. \sqrt{gam} (gim-ti, am born, pri-gim-tis, nature, gam-in-ti, beget, furnish), a further fmn. fr. $\sqrt{\gamma}a$ (γe - γa - ω s), developed early to γe - ν (the meang. 'beget' through that of 'marry'); μ is here not fr. ν in $\gamma e\nu$. In $\gamma a\mu$ - $\beta p\acute{o}s$ (son-in-law) for * $\gamma a\mu$ - ρo -s we conjecture a 'popular' etymology fr. $\gamma a\mu$ - $\epsilon \omega$, through which an earlier * $\gamma a\nu$ - ρo -s=Lat. gener, i.e. *gen-ro-s (son-in-law), may have passed to * $\gamma a\mu$ - ρos ; cf. Lith. $s\acute{e}n$ -ta-s (son-in-law), f.f. gan-ta-s, O. Bulg. seti (id.), f.f. gan-ti-s, similarly fr. \sqrt{gan} ; cf. § 75, 2, n.

Note 2.—"Allos (other)=Lat. alius, Goth. alis, we hold to be unconnected with Sk. anyá-s (other), with G. Curt., and see in it a fmn. fr. origl. pron. \sqrt{ar} . That such a root existed is proved by st.-fmative sf. ra (v. post). Corss. (Krit. Beitr. p. 295 sqq.) divides them thus: a-li-s, a-liu-s, * $a-\lambda yo-s$, because he holds the a to represent pron. \sqrt{a} (dem. e.g. Sk. gen. sg. masc. nt. a-sya), li, lyo, to be sff. $t\bar{a}-li-s$, $qu\bar{a}-li-s$.

2. Origl. m = Gk. μ , ν (the latter in terms.), e.g. st. $\mu\epsilon$, $\mu\epsilon$, $\dot{\epsilon}\mu\epsilon$ -, $\dot{\epsilon}\mu$ o- (pron. pers. 1) = Lat. me-, Germ. mi- (in mi-ch, mi-r), Sk. and oright ma, thence $-\mu\iota$, pl. $-\mu\epsilon\nu$, Dôr. $-\mu\epsilon\varsigma$, 1 sg. pl. vb. =origl. and Sk. -mi, -masi (e.g. εl-μι=origl. ai-mi, Sk. έ-mi; $i-\mu\epsilon\nu$ =Sk. and origl. i-mási); μ έσσο-ς (μ έσος)=* μ ε θ -yος (τ . post, § 68, 1, e) = Lat. mediu-s, Sk. and origh. mádhya-s, Goth. midji-s; st. $\mu \dot{\eta} \tau \epsilon \rho$ - (mother), Sk. and oright $m \bar{a} t \dot{a} r$ -; $\sqrt{\mu \epsilon \nu}$, $\mu \nu a$, origh. and Sk. man (think), in μι-μνή-σκω (remember), μέν-ος (mind, might)=Sk. and oright, mánas; μέθυ (intoxicating drink), Sk. and oright. $m \dot{a} dh u$, O.H.G. $m \ddot{e} t u$; $\ddot{a} \mu a$ (together, with), $\delta \mu \dot{b} - \varsigma =$ Sk. sama-s (similar, like), sama-m, samā (ὁμοῦ), cf. Lat. sim-ilis, sim-ul, Goth. sama (same); √ Feμ (ἐμέω)=Lat. uom in uom o, for *uemo, Lith. vem (1 sg. pres. vem-iù), Sk. and origl. vam (spue, 1 sg. pres. $vám-\bar{a}mi$). Final m becomes ν , e.g. sign of acc. $\nu = \text{origl. } m$, e.g. $\tau \acute{o} - \nu = \text{Sk. and origl. } ta - m$, cf. Lat. is tu - m; $\nu = m$ as sf. of 1 pers. sing., e.g. έφερο-ν=Sk. and origl. ábhara-m.

§ 66. Note.—The exx. which are intended to prove medial ν to be a representative of origh. m (cf. Curt. Gr. Et.² p. 476 sqq.) are all doubtful. Thus e.g. βαίνω (go) fr. *βαν-yω, which must not be assigned to Sk. √gam, but to √ga, comes fr. the common formatives of the present st. na and ya; in χθών (earth), st. χθον-, bes. χθαμαλός (lowly, on the earth), cf. χαμαί (on the earth), Zend st. zem- (earth), O. Bulg. zemya, zemlya, Lith. zéme (earth), the ν seems to have penetrated inwards from the termn.: so, too, perh. st. χύον- (χιών, snow) bes. Lat. hiem(p)s, Sk. hima-s (snow, cold), Zend st. zim-, zima- (winter, cold), O. Bulg. zima-, Lith. zemà (winter).

§ 67. r- and l-sounds. Origh. r=Gk. ρ , λ .

· Gk. ρ =origl. r, e.g. in $\sqrt{\rho}\nu\theta$ (be red), Sk. and origl. rudh; suff. - ρo , Sk. and origl. -ra, both in $\dot{\epsilon}$ - $\rho \nu\theta$ - $\rho \dot{\epsilon}$ - $\rho \dot{\epsilon}$ (red) = Sk. rudh- $ir\dot{a}$ -s, Lat. ruber, i.e. *rub-ro-s, origl. rudh-ra-s; $\sqrt{\dot{a}}\rho$ in $\dot{a}\rho$ - $\dot{o}\omega$ (plough), $\dot{a}\rho$ - $\rho \tau\rho \nu$ (a plough), cf. Lat. ar-o, ar-atrum, Goth. ar-yan, Lith. $\dot{a}r$ -ti, Scl. or-ati (plough); $\sqrt{\dot{\rho}}\nu$, Sk. and origl. sru, flow, etc.

Gk. λ =origl. r, e.g. in $\sqrt{\lambda\nu\kappa}$ in $\lambda\epsilon\nu\kappa$ -ós (white), Lat. luc, Germ. luh, Sk. ruk, origl. ruk (shine); $\sqrt{\pi}$ o λ , $\pi\lambda\epsilon$, Sk. and origl. par (fill), in π o λ oʻs (many), Sk. purús for origl. parus, π (μ - $\pi\lambda\eta$ - μ) (fill); $\dot{\epsilon}$ - $\lambda a\chi$ oʻs (small)=Sk. laghús; δ o λ $\iota\chi$ oʻs (long), Sk. $d\bar{\imath}rgh$ ás, Zend $daregh\bar{\imath}o$, origl. dargha-s; δ λ os (whole) for * δ o λ Fos, Lat. sollus for *soluos, Sk. sárva-s, etc.

§ 68.

Some important Sound-laws.

MEDIAL.

1. Assimilation.

a. Perfect assimiln. of a preceding to a following sound; e.g. of s to ν , μ following, $\tilde{\epsilon}\nu\nu\nu\mu\iota$ (clothe) =* $F\epsilon\sigma$ - $\nu\nu\mu\iota$; Aiol. $\delta\rho\epsilon\nu\nu$ os (mountainous) =* $\delta\rho\epsilon\sigma$ - ν os fr. $\delta\rho$ os (mountain), st. $\delta\rho\epsilon\varsigma$ - sf. - ν o; Aiol. $\tilde{\epsilon}\mu\mu\iota$ (am) =* $\tilde{\epsilon}\sigma$ - $\mu\iota$; $\epsilon \tilde{\iota}$ - μl , $\delta\rho\epsilon\iota$ - $\nu\delta$ s, represent the double cons. by compensatory lengthening. Not unfrequently consonants which were afterwards lost are preserved in

such assimilns., e.g. περιβρυτος (sea-girt) for *περι-σρυ-το-ς, $\sqrt{\dot{\rho}}\nu$ § 68. (flow, $\dot{\rho}\dot{\epsilon}F-\omega$) for *σρυ, Sk. and origl. sru, Germ. stru (with inserted t), etc.; ἄρρηκτος (unbreakable, unbroken) for *ἀ-Γρηγ-το-ς, $\sqrt{F\rho}$ αγ ($F\rho\dot{\eta}\gamma$ -νυμι, break, $F\rho\dot{\eta}\xi$ ις, rent, for * $F\rho\eta\gamma$ -τι-ς); φιλομμειδής (freely smiling) for * ϕ ιλο-σμει-δης, $\sqrt{\mu}$ ι for * $\sigma\mu$ ι, Sk. and origl. smi, O. Bulg. smi, etc.

The assimiln. of momentary labb. to following μ is well known; e.g. $\gamma \rho \dot{\alpha} \mu \mu a$ (writing) for * $\gamma \rho a \phi - \mu a$ (γέ- $\gamma \rho a \mu \mu a \iota$ for * $\gamma \epsilon \gamma \rho a \phi - \mu a \iota$, 1 pf. med. fr. $\gamma \rho \dot{\alpha} \dot{\phi} - \omega$, write), etc., and the assimilns. which perhoccur only in compds., e.g. $\sigma \nu \lambda \lambda \dot{\epsilon} \gamma \omega$, $\sigma \nu \dot{\rho} \dot{\rho} \dot{\epsilon} \omega$, and the like.

In the commonest of these cases, i.e. in assimilar, of all the dentals (including ν) to a following s, the double s so produced was not tolerated in the later form of lang., even when s was medial and followed a short vowel: only the archaic (Hom.) lang. shows such forms as $\pi \circ \sigma \sigma i$ fr. * $\pi \circ \delta - \sigma i$ (loc. pl. fr. st. $\pi \circ \delta - \sigma i$) foot); throughout s is the only trace of the process of assimiln., not seldom (especially in nom. sing. and where $\nu\tau$, $\nu\delta$, $\nu\theta$, were originally existent) accompanied by compensatory lengthening of precedg. vowels (cf. § 28), in which cases, perh. not common, we must assume an assimilation of the ν by resolution into a vowel-sound. This is a well-known sound-law, to which belong such exx. as loc. pl. $\sigma \omega \mu \check{\alpha}(\tau) - \sigma \iota$, $\pi o(\delta) - \sigma \iota$, $\kappa \acute{o} \rho \check{\nu}(\theta) - \sigma \iota$, $\delta a \acute{\iota} \mu o(\nu) - \sigma \iota$. The s which produces the assimiln. is often unorigl., i.e. has arisen, through the action of a previous sound-law (v. infr.), from τ, e.g. $\pi \epsilon i \sigma \iota_S$ (feeling) fr. st. $\pi \epsilon \nu \theta$ - (cf. $\pi \epsilon \nu \theta \circ_S$, grief) and suff. -σι-ς fr. -τι-ς. Compensatory lengthening occurs in such cases as $\epsilon i\delta\omega_{\varsigma} = *F\epsilon i\delta Fo\tau_{\varsigma}$, $\delta a(\mu\omega\nu) = *\delta a(\mu\omega\nu)_{\varsigma}$, $\phi\epsilon\rho\nu\sigma\iota = *\phi\epsilon\rho\nu\sigma\iota$ fr. φέροντι; ν +dent. must both be lost before s, e.g. σπείσω fr. *σπενδ-σω, πείσομαι fr. *πενθ-σομαι, τιθείς fr. *τιθεντ-ς, χαρί-εις fr. *χαρι-Γεντ-ς (φέρων, however, fr. *φεροντ-ς, v. § 28, 3; · χαρίεσσα fr. *χαρι Fer-ya [v. e], without compensatory lengthening, because no ν was originally there).

Moreover, in this place belong the cases in which the assimiln. takes place together with the loss of the former consonant, e.g.

§ 68. διδάσκω (learn) for *διδαχ-σκω, cf. διδαχ-ή (teaching); λάσκω (cry out, speak) for *λακ-σκω, cf. ἔ-λακ-ον; ἔψευκα for *ἐψευδ-κα fr. ψεύδ-ω (tell lies), etc.

b. Complete assimiln. of a following to a preceding sound.

This kind of assimiln. is, like the former, an especial favourite in the Aiol. dialects, whilst elsewhere, instead of the double consonn., compensatory lengthening (§ 28) of the preceding vowel, or transposn. of v and y generally occurs. Thus F, y, and σ become assimilated to a preceding liquid, F and y sometimes to other sounds also, viz. σ , y, to τ , δ ; e.g. $\gamma \dot{\rho} \nu \nu \rho s = \gamma \sigma \nu \nu \dot{\rho} s$ =* $\gamma o \nu F$ -os, gen. fr. st. $\gamma o \nu v$ - (knee); st. $\pi o \lambda \lambda \acute{o}$ - for * $\pi o \lambda F o$ -, a further fmn. through o, origl. a, fr. st. πολύ- (many), origl. par-u-; ἵππος (horse) fr. *ἐπFος, ἰκFος (cf. sideform ἵκκος), origl. ak-va-s; κτέννω (kill) = κτείνω = *κτεν-yω; χέρρων = χείρων (worse) =* $\chi \epsilon \rho - y \omega \nu$, etc. In the case of λy the assimiln. has been retained in other diall.; $\sigma \tau \epsilon \lambda \lambda \omega$ (send)= $*\sigma \tau \epsilon \lambda y \omega$; $\alpha \lambda \lambda \omega$ (other) =*άλγος, Lat. alius; except ὀφείλω (owe) fr. *ὀφελγω, and perh. a few others; $\pi \tau l \sigma \sigma \omega$ (peel)=* $\pi \tau \iota \sigma - y \omega$ ($\ell - \pi \tau \iota \sigma - \mu \alpha \iota$), cf. Lat. 1/pis in pinso, pis-tor, Sk. piš (e.g. pi-náš-ti, Lat. pinsit); this does not often happen, s usually is lost, and also y at a later period, cf. supr. § 65, 1, a, e; $\pi \acute{o}\delta - \epsilon \sigma \sigma \iota$ fr. * $\pi o \delta \epsilon \sigma F \iota$, $-\sigma F \iota = \text{origl. } -sva$, is termn. of loc. pl., $\pi \circ \delta \epsilon$ - is the noun-st. fr. earlier $\pi \circ \delta$ - (foot); in this case also the later lang, has only one σ, e.g. πόλεσι, γλυκέσι, which never disappears from between the two vowels, because it stands for σσ. τέτταρες, τέσσαρες (four), fr. *τετ Γαρες (f.f. katvāras), and thence *reoFapes is an ex. of F assimild. to a mom. sound. $\tau\tau$ for τy , θy , κy (apparently γy , v. infr. e, β), χy is produced in the same way, since κy first became τy , as this sound-change occurs in many lange,, and the aspiration (of θy , χy) becomes lost before y.

Thus, e.g. ἐρέττω (I row) fr. *ἐρετ-yω, cf. ἐρετ-μός (oar); ἤττων (less, worse) fr. *ἡτyων for *ἡκ-yων, cf. ἤκ-ιστος (superl.); ἐλάττων (less, smaller) for *ἐλατyων, and the latter for *ἐλαθ-

 $y\omega v$, * $\epsilon\lambda a\chi$ - $y\omega v$, cf. $\epsilon\lambda a\chi$ - $\epsilon\sigma\tau os$ and $\epsilon\lambda a\chi \acute{v}s$ (little). These § 68. forms in $\tau\tau$ have by-fms. in $\sigma\sigma$ (v. infr. e, β), and have not arisen through an unparalleled change of $\sigma\sigma$ into $\tau\tau$, but one produced by a divergence of diall. in the treatment of the same fund-fms. as underlie the fms. in $\sigma\sigma$. Accordingly, since e.g. $\pi\tau i\sigma\sigma\omega$ (v. supr.) stands for * $\pi\tau i\sigma -y\omega$, no t-sound ever was in existence here, and so no parallel fm. * $\pi\tau i\tau\tau\omega$ occurs.

δδ, initial δ, for δy, γy, a sound which did not become δy until late, is likewise dialectic; e.g. Boiôt. Lak. Δεύς for *Δyευς (Ζεύς); Boiôt. σφάδδω for *σφαδ-yω fr. *σφαγ-yω (σφάζω, cut the throat), $\sqrt{\sigma}$ φαγ ($\hat{\epsilon}$ -σφάγ-ην); σαλπίδδω for *σαλπιδ-yω, *σαλπυγ-yω (σαλπίζω, trumpet); st. σαλπυγ- (σάλπυγζ, σάλπυγγ-ος (trumpet). This also is the explanation of Att. Iôn. ἔρδω (do) fr. \sqrt{F} εργ (pf. ἔοργα, i.e. FέFοργα, Fέργο-ν, work), Goth. vark, for *Fερδ-yω, *Fεργ-yω, from which we ought to have found *Fερζω acc. to the rule, but this form seems to have been avoided on account of the unpleasant combination ρ ζ, cf. Iôn. Fρέζω, Boiôt. Fρέδδω=*Fρεγ-yω, which differs from *Fερδ-yω merely in transposition from Fεργ to Fρεγ. So also δ fr. δy is produced in place of origl. y (v. supr. § 65, c, n.).

The same assimiln. occurs, except in archaic remains such as ἔρσω, ὧρσα, χέρσος (χέρρος), θάρσος (θάρρος), πέφανσαι (which perh. is hardly authenticated), beside medial combinations, as $\lambda \sigma$, $\rho \sigma$, $\nu \sigma$, $\mu \sigma$, e.g. Aiol. ἔστελλα=ἔστειλα=*ἐστειλσα; Aiol. ἐρράτω=ὀρσάτω; Aiol. ἐγέννατο = ἐγείνατο=*ἐγενσατο; Aiol. ἔνεμμα = ἔνειμα = *ἐνειμσα; thus ἔφηνα stands for *ἐφαν-σα ἡγγειλα for *ἡγγειλ-σα, etc. Thus χήν (goose), gen. χην-ός fr. *χεν-ς, *χενσ-ος, cf. Lat. (h) ans-er, Sk. hã-sas, O.H.G. st. gansi-, Lith. żąsλ-s, O. Bulg. gąsĭ; μήν (month), Iôn. Aiol. μείς, gen. μην-ός fr. *μεν-ς, cf. Lat. mens-is, Sk. mās- (origl. ma-nt-, pres. part. act. \sqrt{ma} , measure); ὅλλυμι (destroy) stands for *ὀλ-νυμι.

c. An assimiln. of preceding to following sounds. It is well known that τ and σ can be preceded only by mute mom. sounds ($\lambda \epsilon \kappa - \tau \delta s$, $\lambda \epsilon \kappa - \sigma \iota s$, i.e. * $\lambda \epsilon \gamma - \sigma \iota s$, $\sqrt{\lambda \epsilon \gamma}$, δ by none

§ 68. but sonant mom. sounds $(\gamma \rho \dot{\alpha} \beta - \delta \eta \nu)$, $\sqrt{\gamma \rho a \phi}$, θ by none but aspp. $(\lambda \epsilon \chi - \theta \hat{\eta} \nu a \iota, \sqrt{\lambda \epsilon \gamma})$.

Before ν labb. pass into their nasals, e.g. $\sigma\epsilon\mu-\nu\acute{o}s$ (awful) for $*\sigma\epsilon\beta-\nuos$, cf. $\sigma\acute{e}\beta-o\mu\alpha\iota$ (I dread), yet they are found, e.g. $\mathring{v}\pi-\nuos$ (sleep), in opposition to som-nus (*sop-nus).

Bef. labb. ν notably passes into the lab. nasal μ (e.g. $\mathring{\epsilon}\mu$ -πειρος for * $\mathring{\epsilon}\nu$ -πειρος), bef. gutt. into the gutt. nasal γ (e.g. συγ-καλέω for * σ υν-καλέω), cf. § 66, 1.

Bef. μ the dentt. τ , δ , θ , often pass into their spirants, e.g. $\mathring{\eta}\nu\nu\sigma$ - $\mu\alpha\iota$ fr. $\mathring{\alpha}\nu\acute{\nu}\tau$ - ω (bring to pass, finish), $\pi\acute{\epsilon}$ - $\pi\epsilon\iota\sigma$ - $\mu\alpha\iota$ for * $\pi\epsilon$ - $\pi\epsilon\iota\theta$ - $\mu\alpha\iota$, etc.; yet Iôn. $\mathring{\delta}\delta$ - $\mu\acute{\eta}$ occurs beside later $\mathring{\delta}\sigma$ - $\mu\acute{\eta}$ (smell), $\checkmark\mathring{\delta}\delta$; $\mathring{\delta}\delta$ - $\mu\epsilon\nu$ (we know) bes. $\mathring{\delta}\sigma$ - $\mu\epsilon\nu$; $\mathring{\alpha}\rho\iota\theta$ - $\mu\acute{\delta}\varsigma$, $\mathring{\alpha}\tau$ - $\mu\acute{\delta}\varsigma$, $\kappa\epsilon\kappa\rho\rho\nu\theta$ - $\mu\acute{\epsilon}\nu\rho\varsigma$, and others, do not show the change to σ .

Further, the change of gutt. κ , χ , before μ into γ is well known, e.g. $\delta \delta \gamma - \mu a$, $\sqrt{\delta \delta \kappa}$; $\tau \dot{\epsilon} - \tau \nu \gamma - \mu a \iota$, $\sqrt{\tau \nu \chi}$; yet χ often remains, e.g. $\delta \rho a \chi \mu \dot{\eta}$. This law was likewise incompletely applied in the earlier (Iôn.) langg., e.g. $i\kappa - \mu \epsilon \nu o s$, $\dot{\alpha} \kappa a \chi - \mu \dot{\epsilon} \nu o s$.

Sometimes nasals seem to change preceding mom. sounds into aspp., e.g. $\lambda \dot{\nu} \chi - \nu \sigma s$ (light, torch) fr. $\sqrt{\lambda \nu \kappa}$ ($\lambda \epsilon \nu \kappa - \dot{\sigma} s$, white), origl. ruk; $\dot{\alpha} \kappa - \alpha \chi - \mu \dot{\epsilon} \nu \sigma s$ (sharpened, pointed), redupl. $\sqrt{\dot{\alpha} \kappa}$ (be sharp); cf. $\dot{\alpha} \kappa - \omega \kappa - \dot{\eta}$ (point), and others.

The same influence is exercised by ρ , λ , in many cases, e.g. suff. $-\theta\rho\rho$, $-\theta\lambda\rho$, bes. orighth tra, Zend thra (here the spirants have the force of aspp.), e.g. $\beta\acute{a}-\theta\rho\rho$ - ν (base), $\nabla\beta\alpha$ (go); $\kappa\lambda\epsilon\hat{\imath}-\theta\rho\rho\nu$ (lock), fr. $\kappa\lambda\epsilon\acute{\iota}\omega$, $\kappa\lambda\eta\acute{\iota}\omega$, (lock); $\theta\acute{\epsilon}\mu\epsilon$ - $\theta\lambda\rho\nu$ (ground-work), etc., bes. $\mathring{a}\rho\rho$ - $\tau\rho\rho$ - ν (plough)=Lat. $ar\ddot{a}$ -tru-m ($\mathring{a}\rho\acute{\iota}\omega$, I plough), etc.

Before ι in stem- and word-formative particles (except in Dôr. dial.) τ is changed to σ , e.g. $\phi\eta\sigma l$ (he says), Dôr. $\phi\alpha\tau l$; the - $\tau\iota$ of 3rd pers. sing. is kept in $\epsilon\sigma$ - τl (he is); the abstracts in - $\sigma\iota$ -s for - $\tau\iota$ -s, e.g. $\phi\phi$ - $\sigma\iota$ s, in Hom. and tragg. $\phi\phi$ - $\tau\iota$ s (speech); $\tau\epsilon\psi\iota$ s (cookery, $\sqrt{\pi}\epsilon\pi$, f.f. kak, cook) fr. * $\pi\epsilon\pi$ - $\tau\iota$ -s, f.f. kak-ti-s; suff. ya, Gk. - ι 0, forming -tya, with stems ending in t-, ta- (the stem-termn. a of ta being lost, which is regularly the case bef. suff. ya), Gk. - $\tau\iota$ 0, and hence - $\sigma\iota$ 0, e.g. fr. $\pi\lambda$ 0 $\hat{\nu}$ 70-s (wealth) is

fmd. Dôr. πλούτ-ιο-ς, and hence πλούσιο-ς (rich); fr. ἐνιαυτό-ς § 68. (year), Dôr. ἐνιαύτ-ιο-ς, and hence ἐνιαύσιο-ς (yearly); st. γεροντ(n. sing. γέρων, old man) with sf. ya, Gk. ια, makes γεροντία, and thence γερουσία (senate); f.f. (d) vikati, Dôr. Γίκατι, εἴκατι (perh. fr. *ἐΓικατι), Att. εἴκοσι (twenty); from Dôr. φέροντι, τιθέντι (3 pl.), f.f. bharanti, dadhanti, come *φερονσι, *τιθενσι, and thence by rule (v. supr.) φέρουσι, τιθεῖσι (Iôn.), etc. Yet in Att. and Iôn. is found φά-τι-ς (speech), γφα, and the like.

Also bef. v this change of τ to σ sometimes takes place, thus in $\sigma \dot{v}$ for Dôr. $\tau \dot{v}$ (thou), cf. Lat. and Lith. tu; suff. $-\sigma v - \nu \eta$, f.f. $-tu - n\bar{a}$, further fmn. of common abstract sf. -tu (-tv - a).

d. An assimiln. of following to preceding sounds. y in the combn. dy is so similar to the preceding dent. sonant d, that it becomes a dental sonant spirant (French or Polish z), dy thus becomes dz (acc. to Sclav. or French pronuncn.), written ζ , e.g. $Ze\acute{v}s$ fr. * $\Delta yevs$ =Sk. $dy\bar{a}us$ ($\sqrt{dyu}=div$), cf. early Lat. Diou-is; Aiol. $\zeta\acute{a}=*\delta ya$ for $\delta\iota\acute{a}$ (through); $\xi\acute{z}o\mu a\iota$ (sit, seat myself)=* $\sigma\epsilon\delta$ - $yo\mu a\iota$, $\sqrt{\dot{\epsilon}}\delta=\sigma\epsilon\delta$; $\sigma\chi\dot{\iota}\zeta\omega$ (split) for * $\sigma\chi\iota\delta$ - $y\omega$, $\sqrt{\sigma}\chi\iota\delta$; $\tau\rho\acute{a}$ - $\pi\epsilon\dot{\zeta}a$ (table) for * $\tau\epsilon\tau\rho a$ - $\pi\epsilon\dot{\delta}$ -ya (four-footed), cf. Lat. st. ped-(pes, ped-is, foot), etc.

Here belongs the aspiration of origly. unaspirated consonn. through influence of preceding prolonged-(liquid) sounds. In Greek this influence is especially exercised by s, cf. Sk. § 52: i.e. * $\sigma\chi\iota\delta$ - $y\omega$, $\sigma\chi\iota\delta$ - η (splinter), $\sqrt{\sigma\chi\iota\delta}$, for and bes. $\sqrt{\sigma\kappa\iota\delta}$ in $\sigma\kappa\iota\delta$ - $\nu\eta\mu\iota$ (divide, scatter), cf. Lat. scid in scindo, Goth. skid in skaida (cut), Sk. khid, i.e. origl. skid, in khi- $n\acute{a}$ -d-mi (slit); $\pi\acute{a}\sigma\chi\omega$ (suffer) for * πa - $\sigma\kappa\omega$ or perh. * $\pi a\nu$ - $\sigma\kappa\omega$, $\sqrt{\pi}a$ in πa - θ ($\check{\epsilon}$ - $\pi a\theta$ - $o\nu$), and $\pi \epsilon$ - ν , $\pi\acute{\epsilon}\nu$ - $o\mu\alpha\iota$ (endure, tire myself), further formations in θ and ν ; the σ sometimes disappears before the aspp. which it has called into existence, e.g. $\check{\epsilon}\rho\chi\omega$ au (come), for * $\check{\epsilon}\rho$ - $\sigma\chi\omega$ au, $\check{\epsilon}\rho$ - $\sigma\kappa\omega$ au, $\sqrt{\check{\epsilon}}\rho$ (come, go), cf. Sk. $rkkh\acute{a}mi$, also $\acute{a}rkh\ddot{a}mi$ =* $\check{\epsilon}\rho\chi\omega$, origl. 1 sing. act. ar- $sk\bar{a}$ -mi, med. ar-ska-mai; $\kappa\rho\bar{\iota}\theta\dot{\eta}$ (spelt) for * $\chi\rho\bar{\iota}\theta\eta$ (cf. § 64, sub fine, and 2 infr.), and this for * $\chi\rho\iota\sigma\theta\eta$, * $\chi\rho\iota\sigma\tau\eta$, cf. O.H.G. $g\ddot{e}rsta$, etc.

§ 68. The nasals also seem to have this aspirating effect sometimes, e.g. Boiôt. -νθί for -ντί, 3 p. pl. act. vb.; ὀμφ-ή (voice) for *Fομπ-η fr. √Fεπ, origl. vak (speak); ἐγχ-ος (nt. spear) fr. √ἀκ (be sharp), cf. ἄκ-οντ- (ἄκων, javelin).

Perh. ρ , λ , are the cause of aspiration in $\tau\rho\epsilon\dot{\phi}-\omega$ (nourish), which thus by assumption may be for * $\tau\epsilon\rho\phi\omega$ bes. $\tau\epsilon\rho\pi\omega$ (sate, delight, cf. $\tau\epsilon\rho\pi\epsilon\sigma\theta a\iota$ $\epsilon\delta\eta\tau\dot{\nu}$ 0s), Sk. tarp (be sated, delighted), Lith. tarp-ti (thrive); $\pi\lambda\dot{a}\theta$ - $a\nu$ 0s, $\pi\lambda a\theta$ - $\dot{a}\nu\eta$ (flat cake), bes. $\pi\lambda a\tau$ - $\dot{\nu}$ 5 (broad), Lith. plat- \dot{u} 5, etc., $\pi\lambda\dot{a}\tau$ - η (plate, oar-blade). Concerning 'unorigl. aspiration,' cf. G. Curt. Gr. Et.² p. 439 sqq.

- e. Mutual assimilation (complete or partial) of two sounds, each affecting the other.
- a. γy becomes $\zeta = dz$ (v. d supr.), as γ bef. y becomes d, y after d becomes z, e.g. $\kappa \rho \dot{\alpha} \zeta \omega$ (cry), i.e. * $k r a dz \bar{o}$ fr. * $\kappa \rho a \delta y \omega$, and this fr. * $\kappa \rho a \gamma y \omega$, $\sqrt{\kappa \rho a \gamma}$, cf. $\kappa \dot{\epsilon} \kappa \rho \bar{a} \gamma a$; $\ddot{\alpha} \zeta o \mu a \iota$ (dread) fr. * $\dot{\alpha} \gamma y o \mu a \iota$, cf. $\ddot{\alpha} \gamma \iota o s$ (holy); $\mu \dot{\epsilon} \zeta \omega v$, $\mu \dot{\epsilon} \iota \zeta \omega v$ (greater), the latter having, moreover, y transferred to the preceding syll. (cf. § 26), fr. * $\mu \dot{\epsilon} \gamma y \omega v$, cf. $\mu \dot{\epsilon} \gamma \dot{\epsilon} \lambda \eta$, $\mu \dot{\epsilon} \gamma a s$ (great), etc.

In $\nu l \zeta \omega$ (wash) bes. $\chi \acute{e}\rho - \nu \iota \beta$ -os ($\chi \acute{e}\rho \nu \iota \psi$, water for handwashing), $\nu \acute{\iota}\pi \tau \omega$ (wash)=** $\nu \iota \beta$ - $\tau \omega$, the earlier root-fm. nig, Sk. nig, is retained (cf. § 63). $\Lambda \acute{a}\zeta o\mu a\iota$ (grasp) bes. $\lambda a\mu \beta \acute{a}\nu \omega$ (take) is obscure, unless it be the unique ex. of $\zeta = \beta y$, formed perh. on the analogy of the common fms. in $-a\zeta \omega$, $-a\zeta o\mu a\iota$.

β. τy , θy , κy , χy , become $\sigma \sigma$; in τy and θy , y perh. became the dent. mute spir. s, after dental mutes, whereby arose τs , $\theta \sigma$, then the preceding mute dentt. assimilated themselves to this σ ; because $\sigma \sigma = \tau y$, θy , also in Dôr., we must not assume that τy (θy) passed next into σy , as $\tau \iota$ into $\sigma \iota$ (v. sup. c), and this σy into $\sigma \sigma$ by rule (b), for in Dôr. τ remains before ι ; κy , χy , became firstly t y, t h y, as of course gutt. so often pass into dentt. bef. y, and then these sounds became $\sigma \sigma$ in the way above described; e.g. $\epsilon \rho \epsilon \sigma \sigma \omega$ (row) fr. * $\epsilon \rho \epsilon \tau - \tau \omega s$; $\epsilon \rho \epsilon \sigma \sigma \omega v$, $\epsilon \rho \epsilon \delta \sigma \omega v$ (stronger, better), with transposn. of γ (cf.

μέζων, μείζων), fr. *κρετ-yων, cf. κράτ-ιστος; κορύσσω (I arm) § 68. fr. *κορυθ-yω, cf. κε-κόρυθ-μαι; βάσσων for *βαθ-yων, cf. βαθ-ύς (deep); π lσσα (pitch) = * π ικ-yα, cf. pix, pic-is; η σσων (less, worse) for * η κ-yων, cf. η κ-ιστος; έ-λάσσων (smaller) for *έ-λαχ-yων, cf. έ-λάχ-ιστος, έ-λαχ-ύς, Sk. lagh-ús.

Not unfrequently $\sigma\sigma$ has apparently arisen from γy : in these cases thus much is clear, that in the older state of lange, a fundamental κ is always found still preserved, and that this κ was not softened to γ till a later period, after κy had been incorporated into a fixed group of sounds; e.g. $\pi\lambda\eta\sigma\sigma\omega$ (strike) bes. $\pi\epsilon\pi\lambda\eta\gamma\sigma\nu$, $\pi\lambda\eta\gamma\eta$ (blow), but origh. $\sqrt{\pi\lambda\alpha\kappa}$, cf. $\pi\lambda\alpha\xi$, $\pi\lambda\alpha\kappa$ -os (flat, plate), Teut. flah, Lith. plak-ti (strike), whence plok-sztas (flat, adj.); $\phi\rho\alpha\sigma\omega$ (inclose)=* $\phi\rho\alpha\kappa$ - $\gamma\omega$, but ϵ - $\phi\rho\alpha\gamma$ - $\gamma\nu$ with softening of κ to γ , cf. Lat. farc-io, etc. Cf. supr. § 62.

Note 1.—βράσσων must be assigned to βραχ-ύς (short), not

to βραδ-ύς (slow); so G. Curt. Gr. Et.² p. 600.

Note 2.—Likewise we mentioned in § 62, above, that κy is still preserved in cases such as $\pi \epsilon \sigma \sigma \omega$ (cook) bes. $\pi \epsilon \psi \omega$, $\pi \epsilon \pi \omega \nu$ (ripe); $\delta \sigma \sigma \alpha$ (voice) bes. $\epsilon \pi \sigma s$; $\delta \sigma \sigma \epsilon$ (eyes) and $\delta \sigma \sigma \sigma \mu \alpha \iota$ (see) bes. $\delta \psi \sigma \mu \alpha \iota$ (*πεκ-y\omega, Sk. pak, Lat. coc; $\delta \sigma \sigma \alpha = *F \sigma \kappa y \alpha$, $\sqrt{F} \epsilon \kappa$, $\sqrt{F} \epsilon \kappa$, origh. $v \alpha k$; $\delta \sigma \sigma \epsilon = *\delta \kappa - y \epsilon$, $\delta \sigma \sigma \sigma \mu \alpha \iota = *\delta \kappa y \sigma \mu \alpha \iota$, $\sqrt{\delta} \kappa$, origh. ak, ef. oc-ulus, Lith. ak-is).

§ 68. *μβροτος (preserved in ἄ-μβροτος), and this for *μρο-τος, past part. from √mar, mra (mori), cf. Sk. mar-ta-s (a mortal, man, Rigved. I. 84, 8, acc. to Kuhn, Beitr. iii. 236); the same process takes place in βλίττω (cut honey) for *μβλιττω, fr. *μελιτ-yω, st. μελιτ- (μέλι, honey); βλώσκω (go, come) for *μβλωσκω fr. *μλωσκω, √μολ in μολ-εῖν, etc.

Note.—In $\pi\tau$ όλις, and such like cases, bes. π όλις (city), cf. Sk. puram, $pur\bar{\imath}$, \sqrt{par} (fill); $\pi\tau$ όλεμος bes. π όλεμος (war), cf. $\pi\epsilon$ λεμίζω (brandish), and Lat. pello; $\pi\tau$ ίσσω (peel)=* $\pi\tau$ ισ-yω for * π ισyω, $\sqrt{\pi}$ ις=Lat. pis (pinso), Sk. pis, $\pi\tau$ stands for π without any visible cause. They seem to be dialectic fms.

g. The ejection of s from between consonn., e.g. $\tau \epsilon \tau v \phi$ - $(\sigma)\theta \epsilon$, is well known.

Loss of s between vowels is treated of § 65. In like cases τ also disappears, but not so often; e.g. $\kappa \acute{e}\rho \omega_{S}$ for $\kappa \acute{e}\rho a\tau$ -os (gen. sing. st. $\kappa e\rho a\tau$ -, horn); $\phi \acute{e}\rho \epsilon\iota$ (3 sing. pres. act.) fr. * $\phi e\rho \epsilon$ - $\tau\iota$, origh. bhara-ti. The dent. nasal also is subject to similar decay in known cases, e.g. $\mu \epsilon\iota \zeta o\nu$ s for $\mu \epsilon\iota \zeta o\nu$ - ϵ s (n. pl. masc. fem. st. $\mu \epsilon\iota \zeta o\nu$ -, greater).

Note.— $\tau \acute{e}$ - $\theta \nu \eta$ - κa bes. \acute{e} - $\theta a \nu$ - $o \nu$, and the like, are primitive deviations from root-fms., and must not be treated according to Gk. sound-laws. Cf. 'root-formation.'

2. Dissimilation. Here belong the known changes of mom. dent. bef. τ and θ to σ , so as to facilitate pronunciation; this change is found in Eran. Lat. and Sclavo-germ. also, e.g. $\dot{a}\nu\nu\sigma$ - $\tau\dot{o}s$ fr. $\dot{a}\nu\dot{\nu}\tau$ - ω ; $\dot{a}\sigma$ - $\tau\dot{e}o\nu$ fr. $\dot{a}\delta$ - ω ; $\pi\epsilon\iota\sigma$ - $\theta\hat{\eta}\nu\alpha\iota$ fr. $\pi\epsilon\dot{\theta}$ - ω ; $\pi\iota\sigma$ - $\tau\dot{o}s$ for * $\pi\iota\theta$ - τos , etc.

Sometimes two consecutive aspp. are avoided by changing the former or latter into an unasp. conson., e.g. $\dot{\epsilon}$ - $\tau\dot{\epsilon}$ - $\theta\eta\nu$, $\dot{\epsilon}$ - $\tau\dot{\nu}$ - $\theta\eta\nu$, for * $\dot{\epsilon}$ - $\theta\epsilon$ - $\theta\eta\nu$, * $\dot{\epsilon}$ - $\theta\nu$ - $\theta\eta\nu$, $\sqrt{\theta\epsilon}$, $\theta\nu$, cf. τl - $\theta\eta$ - $\mu \iota$, $\theta\dot{\nu}\omega$; $\sigma\dot{\omega}$ - $\theta\eta$ - $\tau\iota$ for * $\sigma\omega$ - $\theta\eta$ - $\theta\iota$, the term. of 2 p. sing. imp. is - $\theta\iota$, origl. dhi, cf.

κλῦ-θι, origh. kru-dhi, etc. This change scarcely ever takes § 68. place except in the case of θ (in ϕ and χ perh. only in compds., e.g. $\dot{a}\mu\pi$ - $\dot{e}\chi\omega$, $\dot{e}\kappa e$ - $\chi e\iota\rho la$).

For a similar phenomenon in the case of root-fms., which origly, began and ended with aspp., v. supr. § 64, sub fine).

Moreover, the attempt to avoid pronouncing similar sounds close together causes the contraction of two similar or like consonn. into one, by means of evaporation of the vowel that lies between them, e.g. $\tau\rho\dot{\alpha}\pi\epsilon\zeta\alpha$ (table) for * $\tau\epsilon\tau\rho\dot{\alpha}-\pi\epsilon\zeta\alpha$ (fourfooted); $\tau\dot{\epsilon}\tau\rho\alpha\chi\mu\nu\nu$ for earlier $\tau\epsilon\tau\rho\dot{\alpha}-\delta\rho\alpha\chi\mu\nu\nu$ (four-drachm piece); $\dot{\alpha}\mu\phi\nu\rho\epsilon\dot{\nu}$ s (two-handled jug) for earlier $\dot{\alpha}\mu\phi\nu-\phi\nu\rho\epsilon\dot{\nu}$ s, etc.

3. The aspirates. Whenever by sound-laws aspp. which terminate a root become unasp. consonn., the aspiration falls back upon the τ which begins the root; the same change takes place when θ follows upon the root-termn., notwithstanding that the asp. remains before θ , e.g. st. $\tau\rho\iota\chi$ -, cf. $\tau\rho\iota\chi$ -ós, but * $\theta\rho\iota\kappa$ -s, i.e. $\theta\rho\iota\xi$ (hair); $\tau\rho\epsilon\chi$ - ω (run), but $\theta\rho\epsilon\xi$ o $\mu\alpha\iota$; $\tau\dot{\nu}\phi\omega$ (fume), but $\theta\dot{\nu}\psi\omega$; $\tau\rho\epsilon\dot{\phi}$ - ω (nourish), but $\epsilon\theta\rho\epsilon\dot{\phi}\theta\eta\nu$, etc. In cases like the last mentioned the aspiration before the θ appeared to the Greek instinct for language to be caused by it (the θ), and similarly also where the aspiration occurs in the case of e.g. π , β ; accordingly the sound that ended the root was only characterized as aspirate by the retrogression of the aspiration upon the initial conson.

For the law by which, in the case of roots which origly, began and ended in aspp., the initial consonn. lost their aspiration, v. supr. § 64, sub fine.

4. Law of Reduplication. Of two initial consonn. the former only was admissible into the syll. of redupln.,—hence the aspp. are redupld. through their first element alone $(\chi, i.e. kh, through \kappa; \theta, i.e. th, through \tau; \phi, i.e. ph, through <math>\pi$)—e.g. $i-\sigma\tau\eta$ - $\mu\iota$ (set), i.e. * $\sigma\iota$ - $\sigma\tau\eta$ - $\mu\iota$ for sti- $st\bar{a}$ -mi; $\gamma\acute{e}$ - $\gamma\rho a\phi$ -a (have written) for * $\gamma\rho e$ - $\gamma\rho a\phi$ -a; $\pi\acute{e}$ - $\phi\nu$ - κa (have been born) for * $\phi\epsilon$ - $\phi\nu$ - κa ;

§ 68. τl - $\theta \eta$ - $\mu \iota$ (place) for * $\theta \iota$ - $\theta \eta$ - $\mu \iota$; κl - $\chi \rho \eta$ - $\mu \iota$ (lend, borrow) for * $\chi \iota$ - $\chi \rho \eta$ - $\mu \iota$, and this for * $\chi \rho \eta$ - $\mu \iota$, etc.

In the case of more consonantal combinations, the first consonant also falls away, so that instead of redupln., only a vowel appears, e.g. έ-γνω-κα (have learnt) for *γε-γνω-κα; έ-κτον-α (have killed) for *κε-κτον-α, etc. Cf. Sk. redupln., § 59.

§ 69.

TERMINATION.

The only consonn. tolerated in fine in Gk. were ς and ν (generally fr. μ ; this is also the case in the N. European langg. of the Teut. stem), e.g. $\pi \acute{o}\sigma \iota$ - ς , origl. pati-s; $\pi \acute{o}\sigma \iota$ - ν , origl. pati-m; and further ρ also, e.g. $\pi \acute{a}\tau \epsilon \rho$, voc. f.f. patar, n. sing. $\pi a\tau \acute{\eta} \rho$, f.f. patars (κ is found only in $\acute{\epsilon}\kappa$, shortened fr. $\acute{\epsilon}\xi$ 'out,' and in $o \acute{\nu}\kappa$ 'not,' which likewise is prob. a shortened fm.). Other conson. were either cast off, or changed into ς or ν .

Thus the frequent final t of Indo-Eur. is thrown off in Gk. (cf. Lat. nouō fr. nouōd, origl. navāt, abl. sing.), or changed to s, e.g. $\tau \delta$ (the, neut.), Sk. and oright ta-t, Lat. (is)-tu-d, Goth. tha-t-a; ἔφερε (3 sg. impf.), Sk. and origh. ábharat; ἔφυ (3 sg. aor.), Sk. άδhūt; ἔφερον (3 pl. impf.), origl. abharant; φέρον (acc. sg. neut. pres. part. act.) for *φεροντ; τέρας (wonder, sign) for *τερατ, cf. gen. τέρατ-ος; εἰδός (neut. pres. part. act. 'knowing') for *εἰδροτ, cf. gen. εἰδότ-ος, etc. In consequence of loss of final ι , θ became final; when this occurred, θ also became s, e.g. $\delta \delta s$ (give) fr. $*\delta o\theta$ for $*\delta o - \theta \iota$, oright da-dhi (imper. aor. $\sqrt{\delta o}$, origl. da, dare). δ drops off: $\pi a \hat{i}$ (voc.) for * $\pi a i \delta$ (n. sg. παίς, child); so also κ in γύναι (voc. woman) for *γυναικ (cf. e.g. gen. $\gamma \nu \nu a \iota \kappa - \delta \varsigma$); $\kappa \tau$ in $\delta \nu a$ (voc.) for $*\delta \nu a \kappa \tau$ ($\delta \nu a \xi$, gen. ἄνακτ-ος, lord), γάλα (n. acc. milk) for *γαλακτ (e.g. gen. γάλακτ-ος), etc. From $\nu\tau$ only τ is lost, e.g. γέρον (voc. fr. n. γέρων for *γεροντ-ς, gen. γέροντ-ος, old man) for *γεροντ.

The final m so common in Indo-Eur., esp. as sign of acc. and element of 1st sing. of vb., is usually replaced by ν in Gk., e.g. $\pi \delta \sigma \iota - \nu$, Sk. and f.f. $p \acute{a}ti - m$; $\nu \acute{e}Fo - \nu$, Sk. and f.f. $n \acute{a}v a - m$; $\acute{e}\phi e \rho o - \nu$

(1 sing.), f.f. and Sk. ábhara-m, etc. More rarely it coalesced § 69. with the precedg. vowel; this is probably the reason why precedg. a was lengthened, and hence also in the above lang. it remained as ă, and did not change into ϵ , e.g. $\pi a \tau \epsilon \rho - a = \pi a \tau \epsilon \rho - \bar{a}$ fr. $\pi a - \tau \epsilon \rho - a \nu$, f.f. patar-am; $\epsilon \delta \epsilon \nu \xi a$ (1 sg. aor.) = $\epsilon \delta - \delta \epsilon \nu \kappa - \sigma \bar{a}$, f.f. of termn. -sa-m, cf. Sk. $a - dik - \delta a m$; $\delta \epsilon \kappa a$, cf. Lat. decem, Sk. $da \epsilon c a c c c c$.

The well-known ν ἐφελκυστικόν is no relic of an earlier state of the lang., but a peculiar and late phenomenon in Gk., e.g. ἔφερε- ν , Sk. and f.f. ábharat (3 sg. impf.); in these cases the ν does not appear, therefore, until the oright t had already been lost, and the feeling for lang. had become accustomed to treat the form as ending in vowel; ϕ έρουσι- ν , Sk. and f.f. bháranti (3 pl. pres.); π οσσί- ν , f.f. pad-svi (loc. pl.).

On the 1st pers. pl. of the vb. this ν has taken firm hold; the f.f. of this termn. is -masi, hence rose -mas, which is kept in Dôr. - $\mu\epsilon$; through the loss of final s—which occurs here and there even in Gk. (in Lat. it is notoriously common), e.g. in $o\tilde{\nu}\tau\omega$ bes. and for $o\tilde{\nu}\tau\omega$ s (thus)—fr. - $\mu\epsilon$ s arose *- $\mu\epsilon$, and upon this was grafted ν , at first prob. ephelkustik, and thus was produced - $\mu\epsilon\nu$, e.g. Sk. and origl. bhárāmasi, hence Sk. bhárāmas, Gk. (Dôr.) $\phi\epsilon\rhoo\mu\epsilon$ s, * $\phi\epsilon\rhoo\mu\epsilon$, $\phi\epsilon\rhoo\mu\epsilon$ - ν (we must not think of a change of s to n in this case, any more than elsewhere throughout the range of the Indo-Eur. lang.).

§ 70.

CONSONANTS IN LATIN.

The table of consonn. is to be found in § 30.

The Lat. lang. is esp. characterized by lack of the aspp., which were represented by the corresponding unaspirated sonants, and by unoright spirants f, h; the latter in such a way that f (represby b, in medio) may stand for any oright asp., h almost exclusively=origh gh.

k (written c, q) remains always unchanged, but here and there drops away in initio; it does not become p or t, as in the other Indo-Eur. langg. The oright spirants y, s, v, are generally retained, though s very often passes into r, and y and v often drop out, and are interchanged with i and u.

The consonn. are subject to numerous sound-laws: assimilation; dissimilation; change from t to s; from s to r; medial, initial, and final loss (the latter in a still higher degree in archaic Lat.)—all remove the consonantal system of Lat. widely from the origh. condition of the Indo-Eur. lang.

§ 71.

EXAMPLES.

Origl. mom. mute unaspirated consonn.

in-clu-tus (famed), origl. kru, cf. Gk. κλυ; \sqrt{scid} in scindo (split), § 71. origl. skid, cf. Gk. $\sigma \chi \iota \delta$; canis (hound) for *cvan-is, origl. kvan-s, cf. Gk. κύων, κυν-ός; \sqrt{dic} in deic-o, dīc-o (say), -dīc-us (saying), origl. dik, cf. Gk. δικ in δείκ-νυμι; decem (ten), origl. dakan, cf. Gk. δέκα; \sqrt{luc} in lūc-eo (shine), louc-em, lūc-em (n. lux, light), origl. ruk, cf. Gk. λυκ; \sqrt{loc} in loc-utus, loqu-i (speak), origl. rak, cf. Gk. λακ; \sqrt{uoc} for *uec in uōc-em (n. uox, voice), uoc-are (call), origl. vak, cf. Gk. $F\epsilon \pi$; suff. -co, fem. -ca, origl. -ka, fem. -kā, e.g. ciui-cu-s, uni-cu-s, cf. Gk. -κο-ς, etc.

In Lat. as in Gk. (cf. § 62) k is sometimes softened into g, e.g. ui-gin-ti, tri-gin-ta, bes. ui-cen-sumus, tri-cen-sumus (uigesi-mus, trigesimus, cf. e'- κo - $\sigma \iota$, $\tau \rho \iota \acute{a}$ - $\kappa o \nu$ - τa), -gin-, -cen-, is here a relic of (de) cen, f.f. dakan; neg-otium=*nec-otium; gubernator bes. $\kappa \nu \beta \epsilon \rho \nu \acute{\eta} \tau \eta s$, etc.

Note 1.—This is prob. the case also in glōria (glory) for *clōria, *clōsia, a further fmn. of st. *clōs- for *clouos-, *cleuos-=Gk. κλεΓες-, Sk. grávas- (glory), Sclav. sloves- (n. acc. slovo, word), root origly. kru (hear), as Sk. gravas-ya- (famous), cravas-yā (famousness, Kuhn, Zeitschr. iii. 398), yet the ō is strange, for we should have expected ū, cf. in-iūria=*ious-ia, fr. ious, iūs, a further fm. fr. *iouos. *ieuos.

Note 2.—The pronunciation of c bef. i became, as in other lange, that of palat. k' (perh. like Germ. k in kind): the preference for c before i, where another vowel follows, was the stronger, because in these cases i was nearly the same as y, so that the combinations cio, ciu, etc., were not only sounded like kio, kiu, but tolerably early (precisely as in other lange, also) were pronounced tyo, tyu (Ital. cio, ciu), whence arose the common fluctuation in writing about the end of the second or the beginning of the third century A.D. (Corss. Krit. Nachtr. p. 48). The change of i, y, after t, into s, s' (tyo = t so), does not occur till the Romance period.

Note 3.—In the pronoml stems, hi-, ho- (hi-nc, ho-nc), notwithstanding the regularly corresponding Sk. *ghi-, gha- (in hi, then, ha, gha, important particles), ought not prob. to be separated from Goth. hi-, hva-, Sclav. si-, ki-, Lith. ssi-, ka-, i.e. origl. ki-, ka-, on account of the perfect similarity of their functions; further, in \sqrt{hab} in hab-eo, hab- \bar{es} =Goth. hab-a, hab-ais (I have, thou hast), cf. Osk. hip-ust (habuerit), haf-iest (habebit),

§ 71. whose initial conson. is, as in Goth., k (Goth. \sqrt{hab} also corresponds to Lat. \sqrt{cap} in cap-io); Lat. h seems to be oright, a permutation which is found sporadically in Sk. hrd-, hrd-aya-(heart)=origl. kard- (cf. Lat. cord-, Gk. καρδ-ία, Goth. hairt-ō) the antiquity of this h in Aryan is shown by Zend zeredhaēm =Sk. hrdayam]. With Bopp, therefore, I now hold the Lat. pron. stems hi-, ho-, to be parallel-fms. to origl. ki-, ka-, regularly represented in Lat. by qui-, ci-, quo-, cu- (qui-s, ci-tra, quo-d, cu-ius, used as interrog. and relat.), and so, too, \sqrt{hab} in hab- $\bar{e}re$, as a parallel-fm. to cap in cap-ere, for Goth, b can be= origl. p, and b may possibly arise in Lat. through softening from p (bibo, drink,=origl. papāmi). The correspondence of Lat. h to Goth. h remains none the less remarkable, but esp. the conformity of the two lange, as regards habere, whose perfect identity, nevertheless, no one denies. But we must not suppose words were borrowed in either case. Other views are found in Corss. Krit. Nachtr., p. 89 sqq.; Comp., 1st ed., p. 715.

Note 4.—Accordingly p is not in Lat. = origl. k (but cf. Osk. and Umbr.); words in which p seems=origl. k are therefore Thus Petronius, Epona, are Keltic, cf. Lat. quatuor, equos; popina is Osk., cf. Lat. coquina, coquere; palumbes, bes. Lat. columba, must prob. be derived fr. Osk., and limpidus, too, bes. liquidus, must be a dialectic, and not originally a Roman by-form, in which case both words, as is often maintained, were identical; if lupus is really=Gk. λύκος, it must therefore also be attributed to Osk., Sab., or Umb., but beyond doubt it belongs to Zend; u-rup-i-s, raop-i-s (name of wild beasts of the breed of dogs), \(\sqrt{rup}, \text{lup} \) (rend, cf. Spiegel, Zeitschr. xiii. 366); sap-io (taste of), sap-iens (wise), does not belong to sucus, Gk. οπός (sap), but to O.H.G. √sab (understand, pf. int-suab; Mid. H. G. pres. ent-sebe, pf. ent-suop), Gk. $\sigma \circ \phi - \circ \circ \circ$ (wise), $\sigma \circ \phi - \circ \circ \circ \circ$ (intelligible, clear), with unorigl. asp. (v. supr. § 62, 3, n. 2); saep-io (hedge in), prae-saep-e (crib, stall), does not agree with Gk. $\sigma \eta \kappa \dot{\rho}$ even in root-vowel (Lat. ae = ai, Gk. $\eta = \bar{a}$); trepit (vertit; Paul. Ep., 367; Curt. Gr. Et.² 411) seems to be borrowed from Gk. τρέπει.

2. Origl. t=Lat. t; e.g. in tu (thou), origl. tu, cf. Gk. $\tau \acute{o}$, $\sigma \acute{o}$; \sqrt{to} in is-tu-d (dem.), origl. ta, ta-t, cf. Gk. $\tau \acute{o}$; \sqrt{ten} in ten-tus (held, stretched), ten-to (holding, length), ten-to (stretch), origl. tan, cf. Gk. ta, tev; st. tri- (three) in tris, tris, tris, origl. tri-, cf. Gk. to-to- in to-to- is to-to- to- to

sta-re, origl. sta, Gk. $\sigma\tau a$; \sqrt{teg} (cover), origl. stag, Gk. $\sigma\tau e\gamma$; § 71. \sqrt{pet} in pet-o (make for), im-pet-us (onset), penna fr. pes-na, *pet-na, origl. pat (fly, fall), cf. Gk. $\pi e\tau$; \sqrt{uert} in uert-ere (turn), origl. vart; suff. -to, fem. -ta= $-t\bar{a}$, cf. Gk. - τo -, - $\tau \eta$, e.g. in da-tu-s, origl. da-ta-s, Gk. δo - τo - ς ; -t, 3 p. sing., -nt, 3 pl. vb., origl. -ti, -nti, cf. Gk. - $\tau \iota$, - $v\tau \iota$, e.g. fer-t, fero-nt(i), Sk. and origl. $bh\dot{a}ra$ -ti, $bh\dot{a}ra$ -ti, Gk. $\phi \dot{e}\rho e$ - $(\tau)\iota$, $\phi \dot{e}\rho o$ - $v\tau \iota$, etc.

Note 1.—On final t, cf. § 79: for Lat. $\delta r = Gk$. $\theta \rho$, origh. tr, § 77, 1, c.

Note 2.—The change fr. $\tau \iota$ bef. vowels to ts (z) occurs first in

Romance lange.

3. Origl. p=Lat. p, e.g. \sqrt{po} in po-tus (drink), origl. pa, cf. Gk. πo in $\pi \delta - \sigma v$; in bi-bo (drink), f.f. pa- $p\bar{a}mi$, p has been softened into b, a change occurring also in other isolated cases (cf. Corss. Krit. Nachtr. p. 176 sqq.); *po-ti-s in impos, compos, im-po-tem, com-po-tem (unable, able), po-t-est (he can), -po-te, -pte (a noticeable affixed particle, e.g. ut-pote, suo-pte), Sk. and origl. pa-ti-s (lord), Gk. $\pi \delta - \sigma \iota$ -s, origl. \sqrt{pa} (protect); pa-ter (father), origl. pa-tar-s, cf. Gk. $\pi \delta - \tau \eta \rho$, same root; \sqrt{ple} in $pl\bar{e}$ -nus (full), origl. par, pra, cf. Gk. $\pi \delta \delta c$; \sqrt{spec} in spec-io, spic-io (see), spec-ies (appearance), Sk. pag for *spag, O.H.G. spah (in $sp\bar{e}h$ - $\bar{o}n$, espy, $sp\bar{a}h$ -i, shrewd), origl. spak; \sqrt{tep} in tep-eo (am warm), tep-or (warmth), Sk. and origl. tap; \sqrt{sop} in sop-ire (make sleepy), som-nus (sleep) for *sop-nus, Sk. and origl. svap, cf. Gk. $v\pi$ -, etc.

Note.— \sqrt{flu} , flug (fluc-tus), a later and further fmn. fr. flu, in *flou-o, flu-o (flow), does not belong to $\pi\lambda\nu$, Sk. plu, Sclav. plu, etc., for Lat. f is not=origl. p: this root is represented by Lat. plu (plu-it, i.e. *plou-it, it rains); perh. Lat. flu is to be placed beside Gk. $\phi\lambda\nu$ - ω (swell, overflow), oivo- $\phi\lambda\nu\xi$, $-\phi\lambda\nu\gamma$ -os; so Curt. Gr. Et. 271; we can scarcely take flu for *sflu, and this for *sflu fr. *stru for sru (flow), with Ad. Kuhn (Zeitschr. xiv. 223); in the latter case Lat. fluo, i.e. *flouo, stands equal to Sk. srávāmi, Gk. $\acute{\rho}\acute{\epsilon}F\omega$; flu-men for *s θ roumen, *s θ reumen, essentially = $\acute{\rho}\acute{\epsilon}\nu\mu\alpha$ for * $\sigma\rho\epsilon\nu\mu\alpha$, O.H.G. strou-m, Pol. strumien (running stream).

§ 72. Momentary sonant unasp. consonants.

1. Origl. g = Lat. g, gv (gu), v.

Lat. g=origl. g, e.g. \sqrt{gen} in gi-g(e)n-o (beget), gen-us (race), gna in $gn\bar{a}$ -tus (one born, son), origl. gan, ef. Gk. γev ; \sqrt{gno} in $gn\bar{o}$ -sco (learn), $gn\bar{o}$ -tus (known), origl. gna, transposed fr. gan, cf. Gk. γvo in $\gamma \iota - \gamma v\dot{\omega} - \sigma \kappa \omega$; genu (knee), ef. Gk. $\gamma \acute{o}vv$, Sk. $\acute{g}\acute{a}nu$, Goth. kniu; \sqrt{ag} in ago (drive), origl. ag, pres. $ag-\bar{a}mi$, Gk. $\dot{a}\gamma$ in $\ddot{a}\gamma-\omega$; \sqrt{iug} in iugum (yoke), iung-o (join), Sk. $yu\acute{g}$, yug, origl. yug, cf. Gk. $\zeta v\gamma$, etc.

Lat. $gv\ (gu) = \text{origl.}\ g$. As oright k developed into $gu\ (kv)$, so also $g\ (= \text{origh.}\ g$ and gh, of. § 73, 1) into gv: this gv is, however, retained only after n; it also occurs after r, bes. g, in urgueo bes. $urgeo\ (urge)$, \sqrt{urg} , oright varg, of. Sk. varg (shut out), Lith. $v \ge r \ge -ti$ (urge). Between vowels this g has become assimilated to the v (without lengthening of a previous short syll.), so that the v alone therefore remains. In this way it happens that Lat. v betw. vowels may be oright g and gh, e.g. \sqrt{uig} for $\sqrt[*]{guig}$, cf. Germ. guick in uixi (pf.)= $\sqrt[*]{uig}$ -si, uic-tus (diet)= $\sqrt[*]{uig}$ -tus, but $u\bar{u}u$ -tus (alive), $u\bar{u}u$ -tus (live) for $\sqrt[*]{uig}$ -tus, viig-v

Note 1.—fluxi, fluc-tus, con-flug-es (confluence), bes. fluo, i.e. *flou-o (flow), show indeed a further fmn. of \sqrt{flu} to flug, as Gk. $\phi\lambda\nu$ to $\phi\lambda\nu\gamma$ (§ 71, 3 n.); we see, however, no ground for the assumption that fluo, *flou-o, together with fluu-ius (river), have passed through fms. *flogu-o, *flugu-ium (Corss. Ausspr. etc., i.¹ 44). In this case the root-fm. is preserved without g.

Note 2.—Cf. exx. cited under gh, § 73, 1, and sound-laws, § 77, 1. a.

Note 3.—In bos, bouis (ox)=Gk. $\beta o \hat{\nu}_S$, $\beta o F \delta_S$ =Sk. $g \tilde{a} us$ (gen. $g \tilde{o} s$ prob. represents origh. g a v-as), of O.H.G. $c h u \tilde{o}$, b=origh. g, a correspondence of conson. otherwise foreign to Lat.; accordingly the word is probably borrowed. G. Curt. Gr. Et.² nos. 639, 642, brings forward super-bus, super-bia (proud, pride), which he takes to stand for *super-bios, as=Gk. $\hat{\nu} \pi \acute{e} \rho$ - $\beta \iota o s$ (overween-

ing), $-\beta la$ (presumption), $-\beta los$ however=Sk. fi, pres. fi = fa fi. (triumph), f.f. fi, fi,

Note 4.—c and g were not distinguished in earlier Lat. writing, but prob. in the spoken lang. only.

Note 5.—Bef. n we are now accustomed in pronunciation to change Lat. g to gutt. n, i.e. the g becomes assimild. to n, according to its scale, becoming nasal: instead of mag-nus, dig-nus, etc., we say man-nus, din-nus. This is the same interchange of sound which is seen quite early in the lang., e.g. in Sam-nium for *Sab-nium, som-nus for *sop-nus. Spellings such as singnum make it probable that even as early as the times of the later Cæsars, people had begun to pronounce signum as sinnum. Yet we cannot consider this pronuncn. of gn as nn to be ancient, because the Roman grammarians do not mention it. From this later pronunciation of gn we must distinguish the principle on which gn was treated in Romance langg., where it became a palatal n, e.g. Ital. magno, degno (pron. mano, deno), Fr. magne, digne (pr. man, din). Therefore the above-named pronunciation of Lat. gn cannot have arisen through Romance influence.

2. Origl. d=Lat. d, rarely l.

Lat. d=origl. d, e.g. \sqrt{da} in $d\tilde{a}$ -tus (given), Sk. and origl. \sqrt{da} , cf. Gk. δo ; \sqrt{dom} in dom-are (tame), Sk. and origl. \sqrt{dam} , cf. Gk. $\delta a\mu$ - $a\omega$; dom-us (house), Sk. and origl. dam-as, cf. Gk. $\delta \delta \mu$ -os; dent-em (tooth, acc.), Sk. and origl. dant-am, cf. Gk. δ - $\delta \delta \nu \tau$ -a; \sqrt{uid} in uid-ere (see), Sk. and origl. vid, Gk. $F\iota \delta$; \sqrt{ed} in ed-o (eat), Sk. and origl. ad, cf. Gk. $\epsilon \delta$; \sqrt{sed} in sed-eo (sit), Sk. and origl. sad, cf. Gk. $\epsilon \delta$, etc.

Lat. l = origl. d in initio, and, more rarely, medially bef. vowels, e.g. lacrima (tear) fr. dacrima (Festus), cf. $\delta \acute{a} \kappa \rho \nu$, Goth. tagr, O.H.G. zahar; $l\bar{e}uir$ (father-in-law), cf. $\delta \bar{a}\acute{n}\rho$ -, st. $\delta \bar{a}e\rho$ -, for $*\delta a\iota e\rho$ -, $*\delta a\iota Fe\rho$ - (Ebel, Zeitschr. vii. 272), Sk. st. $d\bar{e}v\acute{a}r$ -, n. sing.

- § 72. dēvā, also a-st. dēvarā-s, O.H.G. zeihhur, Lith. dēveri-s (known to me through the Dictionary only), O. Bulg. děveri; lingua (tongue), earlier dingua, cf. Goth. tuggō, Germ. tunge; ol-ere (smell) bes. od-or (scent), cf. ὄδ-ωδ-α, ὀδ-μή, ὀσμή. Sometimes both the d- and l-forms remained extant; thus im-pel-imentum bes. im-ped-imentum (hindrance), fr. st. ped- (pes, foot); de-lic-are bes. de-dic-are (dedicate), √dic (dēc-o, δείκ-νυμι, etc.), etc.
 - 3. Lat. b may be origl. b (v. § 46, 3), e.g. in bal-are (bleat), cf. Gk. $\beta\lambda\eta$ - $\chi\dot{\eta}$ (a bleating), $\beta\lambda\eta$ - $\chi\dot{\alpha}o\mu\alpha\iota$, Sclav. $bl\dot{e}$ - $j\dot{a}$, O.H.G. $bl\dot{a}$ -zan (bleat), an onomatopoëtic word; breuis (short), corresponding to Gk. $\beta\rho\alpha\chi\dot{\nu}s$, Sclav. $br\ddot{\nu}z\ddot{\nu}$ (quick); \sqrt{lab} in $l\bar{a}b$ -itur (glides, sinks), lap-sus=*lab-tus (past part.), Sk. \sqrt{lab} , lamb in $l\dot{\alpha}mb$ - $at\bar{e}$ (he sinks, falls).

§ 73. Momentary sonant aspirated consonants.

Note 1.—f may represent any of the aspp., and is placed mainly in initio; medially b occurs instead of f; yet rūfu-s (red), scrofa (sow), Afer (African), sifilus and sifilare (Fr. siffler, Zeitschr. xvi. 382) bes. usual sibilus (whistling, piping), sibilare (to whistle, pipe), etc., with medial f betw. vowels, according to the principles of the other Italian lange, whose influence perh. made itself felt in these words (Corss. Krit. Nachtr. p. 194, sqq.). In signi-fer, pesti-fer, and the like, f evidently arises from the perceptible connexion with ferre, whilst in ama-bam, etc., fr. \(\sqrt{fu} \) (fui, etc.), origl. bhu was no longer felt.

Note 2.—ch, th, ph, are not Latin but Gk. sounds, which did not come into use till a comparatively late period, and are yet unknown in the earlier lang. Further details as regards the history of these ways of spelling belong to the special gr. of Lat.

1. Origl. gh=Lat. g, gv (gu), v, h, f.

Lat. g=origl. gh, e.g. \sqrt{ger} , gra, in ger-men (bud),=Lith. $\dot{z}el-m\ddot{u}$, st. $\dot{z}el-men$ - (sprout), $gr\ddot{a}-men$ (grass), origly. a side-form of ger-men, of. O.H.G. gruo-ni (green), gra-s (grass), Sk. $h\dot{a}r-it-har-ita$ - (green), Zend zairita- (yellowish-green), Gk. $\chi\lambda o-\dot{\eta}$ (green, grass), O. Bulg. $zel-en\ddot{u}$ (green), Lith. $\dot{z}el-ti$ (grow green,

wax), \dot{z} ál-ias (green), \dot{z} ol- \dot{c} (grass, greens), origl. \sqrt{ghar} , ghra § 73. (be green, yellow, grow green); $gr\bar{a}$ -tu-s (pleasant), of. Osk. Umbr. \sqrt{her} (wish), χ á ρ - ιs (grace), χ aí ρ ω , i.e. * χ a ρ - ν ω (rejoice), Sk. har- ν ami (love, desire), Germ. \sqrt{gar} (desire), e.g. in O.H.G. $g\ddot{e}r$ - $\bar{o}n$ (desire), origl. \sqrt{ghar} , ghra; grando (hail) bes. Sk. $hr\bar{a}d$ - $un\bar{\imath}$, Gk. χ á λ a ζ a, i.e. * χ a λ a δ - ν a, * χ a λ a δ ν a (v. § 29, 1), origl. root therefore ghrad; except before r and in ger-men Lat. g=gh is confined to the middle of words; \sqrt{ang} in ang-o (throttle, kill), ang-ustus (narrow), ang-or (pain), ang- $\bar{\imath}na$ (quinsy), origl. $\sqrt{ang}h$, Gk. $d\gamma\chi$ $d\chi$ in $d\gamma\chi$ - ω , $d\chi$ - $vv\mu$ a ι , $d\chi$ -os, Sk. ah, ah, Goth. agg, origl. agh; \sqrt{lig} in lig-urio, li-n-g-o (lick), origl. righ, Sk. rih, lih, Gk. $\lambda \iota \chi$ in $\lambda \epsilon l \chi$ - ω , $\lambda \ell \chi$ -vos, Goth. lig; \sqrt{mig} in mi-n-g-o, $m\bar{e}io$, for *migio, origl. migh, Sk. mih, Gk. $\mu \iota \chi$ in δ - $\mu \iota \chi$ - $\epsilon \omega$, δ - $\mu l \chi$ - $\lambda \eta$.

Lat. gv(gu), v = origl. gh (cf. § 72, 1, and § 77, 1, a), e.g.angu-is (snake), angu-illa (eel), cf. Gk. ἔχ-is (viper), ἔγχ-ελυς (eel), Sk. ah-is, i.e. *agh-is, Lith. ang-is (snake), ung-urys (eel), O.H.G. unc (snake); in nix (snow), i.e. *nig-s fr. *snigh-s, gen. niu-is for *niqu-is, *sniqh-as, is found—as also we see fr. Lith. \sqrt{sniq} , in sniq-ti (to snow), sneg-a-s (snow), and Gk. $\nu i\phi$ -a (snow, acc.), $\nu l \phi - \epsilon \iota$ (it snows)—an oright \sqrt{snigh} as a basis, which is clearly shown in Sk. snih (be moist); breu-is (short) for *bregu-is, Gk. βραχύς; leu-is (light) for *leguis, cf. έ-λαχύς, Sk. laghú-s. In breuis and leuis the correspondence of v to gu ought prob. to be explained as occurring through change of origl. gh to gv, but rather through the introduction of a secondary i into the previously existing stems bregu-, legu-,=braghu-, raghu-. Nevertheless even thus the origl. gh is involved in the v, because the gh, or rather its Lat. equivalent g, has become assimild. to the v.

Note.—Therefore g may represent both oright gh and g; in such cases as mag-nus (great) bes. $\mu\acute{e}\gamma$ -as, ego (I) bes. $\acute{e}\gamma\acute{\omega}$ (§ 64, 1), we must not permit ourselves to determine that Lat. g is = oright gh, merely on account of Sk. mah- $\acute{a}nt$ -, $ah\acute{a}m$,

§ 73. since the corresponding Goth. fms. mik-ils, ik, show the unasp. conson.

Lat. h=origl. gh, esp. in initio, very rarely in medio, e.g. hiem-ps (winter), cf. Gk. $\chi\iota\acute{o}\nu$ (snow), $\chi\acute{e}\iota\mu a$ (storm), $\chi\iota\iota\iota\acute{o}\nu$ (winter), Sk. himá-s (snow, cold), Sclav. zima (winter, cold), Lith. \dot{z} emà (winter); homo (man), earlier hemo, st. homen-, hemen-, cf. Goth. guma (man), st. guman-, Lith. \dot{z} mů, st. \dot{z} men-(mankind), which collectively point to a f.f. ghaman-; holus, helus, heluola (greens), \sqrt{ghar} (be green), cf. $\chi\lambda\circ-\acute{\eta}$, Sk. hár-ita (v. sub g=gh); haed-us (he-goat, Cod. Medic. Vergili), cf. Goth. gaits (f. she-goat), O.H.G. geiz, the initial conson. of this word was therefore gh; \sqrt{veh} , pres. veh-o (carry, draw), \sqrt{vagh} , pres. $vagh-\ddot{a}mi$, Sk. vah, pres. $v\acute{a}h-\ddot{a}mi$, Zend vaz, pres. $vaz-\ddot{a}mi$, Gk. $Fe\chi$ in $F\acute{o}\chi$ -os (waggon), Goth. vag in (ga-)vig-a (move), vig-s (way), Sclav. ves, pres. vez-a, Lith. ves, pres. $ve\dot{z}-\dot{u}$.

The h easily comes to be entirely lost, e.g. in anser (goose) for *hanser, cf. Sk. $h\tilde{a}s\acute{a}$ -s, O.H.G. gans, st. gansi-, Sclav. gasi, Lith. $\dot{z}asi$ -s; olus for earlier holus (v. supr.); uia (way) fr. *ueh-ia, *ueia, *uēa, \sqrt{u} eh, cf. the completely analogous Lith. $v\acute{e}z\acute{e}$ (track), i.e. *ve $\dot{z}ya$, f.f. of Lith. and Lat. word, thus vagh-y \ddot{a} ; $n\bar{e}mo$ (no man), fr. *ne-hemo, etc.

Note.—h is often found where it should not be, by false analogy, e.g. humerus for umerus, which is warranted by MSS., cf. Gk. $\delta\mu$ o-5, Sk. δ sa-s and δ sa-m, Goth. amsa, st. amsan-; in later times h was noticeably often placed bef. initial vowel: h must therefore have fallen out of use in many cases tolerably early.

Lat. f=origl. gh, e.g. fel (gall), st. felli-, clearly fr. f-felli-, cf. Gk. $\chi \circ \lambda - \circ \gamma$, $\chi \circ \lambda - \circ \gamma$, O.H.G. galla, Sclav. $\check{z} l \check{u} \check{c} \check{c}$, \sqrt{ghar} (be green); f or-mu-s, f or-midus (hot), cf. Sk. g har- $m\acute{a}$ -s (heat), Scl. g r \check{e} -iti (to warm), g or- \check{c} ti (burn), Germ. w arm for f or f

Benf. Or. u. Occ. iii. 69); fu-tis (tub), fū-tilis (unstable, cf. Curt. § 73. Gr. Et.² no. 203, p. 156), $\sqrt{fu-d}$, fundo (pour), cf. Gk. $\sqrt{\chi v}$ in $\chi \notin F-\omega$, Teut. gu-t, in Goth. giut-an (pour).

Since f and h correspond to origh. gh, and h easily disappears altogether, we can explain such forms as faedus, $f\bar{e}dus$, bes. haedus, aedus, $\bar{e}dus$ (cf. $gei\bar{g}$); folus bes. holus and olus (\sqrt{ghar}); fostis bes. hostis (foe; Goth. gasts, guest, points distinctly to the origh. initial gh; in both langs. the meaning has been developed in divergent lines, cf. Corss. Krit. Beitr. 217 sqq.); fordeum bes. hordeum, prob. for *horteum, *horsteum, cf. O.H.G. gersta, Gk. $\kappa\rho\bar{\iota}\theta\dot{\eta}$ for * $\chi\rho\bar{\iota}\sigma\tau\eta$ (§ 68, 1, d; on this word cf. Corss. Krit. Nachtr., p. 104 sqq.); $fest\bar{u}ca$ (stalk, switch) bes. hasta (spear), cf. Goth. gazds (thorn), O.H.G. gart (thorn), *gartya (gardea, kertia, gerta), initial origh. gh therefore; and the like. Cf. the change fr. gh to f in cases such as Engl. enough (pron. inuf), A.S. $gen\bar{o}h$ (genug); laugh (pr. $l\bar{u}f$), A.S. hleahhan, Goth. hlahyan (laugh), etc.

Note 1.—No ex. of b=origl. gh seems to be found.

Note 2.—The origl. \sqrt{ghar} (be green) is found also in fms. ger (germen), gra (grāmen), hel (helus), hol (holus), ol (olus), fol (folus), and fel (fel). In the other lange, also the feeling of relationship of the different words which spring from this root has been lost.

2. Origl. dh=Lat. d, f, b.

Lat. d = origl. dh, e.g. mediu-s (middle-) = origl. and Sk. $m\acute{a}dhya$ -s, Gk. $\mu\acute{e}\sigma\sigma\sigma$ s, i.e. * $\mu\epsilon\theta y$ o-s, Goth. midji-s; aed-es (house, origly. fire-place, cf. aes-tus, aes-tus, fr. *aed-tus, *aed-tus, $\forall idh$, origl. Gk. $a\emph{i}\theta$ - ω , Sk. indh, cf. O.H.G. eit (fire); uidua (widow), cf. Sk. $vidhav\ddot{a}$, Goth. $viduv\ddot{o}$.

Hence it arises that the origl. roots da, dha (give, set), may become intermixed, e.g. ab-do (do away, hide), con-do (found), $cr\bar{e}$ -do (believe), belong not to da-re (give), but to a root lost in its uncompounded fm., corresponding to Gk. τl - $\theta \eta$ - μl , Sk. $d\acute{a}$ - $dh\bar{a}$ -mi, O.H.G. tuo-m, cf. Sk. cad-dadh-ami (believe); of the coin-

§ 73. cidence of the origl. da, dha (as in Zend), we find proof in uen-di-t (sells) bes. uēnum dat = Sk. and origl. vasnam dadhāti, δνον τίθησι, dat therefore stands here most likely as representative of dha, Gk. θε, not of do, Gk. δο; further, do which has become like a sf., e.g. in albi-du-s, ari-du-s, sordi-du-s, is prob. to be referred to this root, as the similar roots also in Lat. are elsewh. still practically used as suffixes (e.g. laua-cru-m, ludi-cru-s, ala-cri-s, uolu-cri-s, cf. √kar (make); late-bra, fune-bri-s, cf. √bhar, ferre, etc.). In uncompounded words √dha is in Lat. fa, fe; v. post.

Note.—r for d fr. dh is altogether sporadic, in meri-dies (mid-day) fr. *medi-dies (medius=mádhyas, ef. $\mu\epsilon\sigma$ - $\eta\mu\beta\rho$ la, Germ. mit-tag, Sk. madhyāhna-s fr. madhya-, medius, and ahan-, day); in the case of ar=ad (ar-uorsus, etc.), the comparison with words of the kindred langg. is not easy (cf. regular change of d to r in Umbrian).

Lat. f=origl. dh, e.g. $f\bar{u}mus$ (smoke), cf. Sk. $dh\bar{u}m\dot{a}s$, Lith. $d\bar{u}mai$ (pl. n. sing. would be $d\bar{u}ma$ -s), Sclav. $dym\ddot{u}$, O.H.G. toum, Gk. $\theta\dot{v}$ -os (burnt sacrifice), \sqrt{dhu} ; fores (pl. door), foris (passage), foras (outwards), cf. Gk. $\theta\dot{v}\rho a$, Goth. $da\dot{u}r$, O.H.G. tor, turi, Scl. dveri, Lith. $dur\dot{y}s$, Sk., however, $dv\dot{a}ra$ -m, $dv\ddot{a}r$ -, Ved. dur-with d, not dh, to which the S.- and N.-European langg. point; fer-us, fer-a, fer-ox (wild), cf. Gk. $\theta\dot{\eta}\rho$, $\theta\eta\rho$ -lov; fir-mus (fast), $fr\bar{e}$ -tus (trusting to), $fr\bar{e}$ -num (bridle), for-ma (shape), cf. Sk. dhar- $im\dot{a}n$ - (id.), \sqrt{dhar} (hold); $f\bar{i}o$ =*feio (become), f.f. $dhay\bar{a}mi$, \sqrt{dha} (set, do), Gk. $\theta\epsilon$, Goth. da, from which also the secondary \sqrt{fac} is formed (fac-io, make), likewise $f\ddot{a}$ -ber (wright), st. fa-bro-, cf. Sk. $dh\bar{a}$ -tar- (founder, ordainer; Kuhn, Zeitsch. xiv. 229 sqq.).

In $r\bar{u}fus$ (red)=Goth. raud-s, f.f. $r\bar{u}udha$ -s, \sqrt{rudh} , medial f stands also for origh. dh, whilst rub-er (red), rub-igo (rust), are regular, and show b for f (v. supr. n. 1), but collateral raud-us (clod), origh. \sqrt{rudh} , cf. Sk. rudh-irá-m (blood), Gk. $\hat{\epsilon}$ - $\rho v\theta$ - $\rho \acute{o}$ s, and hence we find this root in Lat. as rud, ruf, rub (for rutilus, v.

infr.). Cf. the f-like pronunch of th in Eng. and θ in mod. Gk; § 73. in Russian Gk. $\theta = f$ in pronunciation.

Lat. b = origl. dh in medio, e.g. rub - er, st. $rub - ro - = \hat{\epsilon} - \rho \nu \theta - \rho \delta - \epsilon$, Sk. rudh - iria, origl. $rudh - ra - \epsilon$, \sqrt{rub} , Sk. rudh, Goth. rud, O.H.G. rut, Scl. rud (be red); $\bar{u}ber$ (udder), i.e. *ouber, Gk. $overline{u}dhar - everline{u}dhar - e$

3. Origl. bh=Lat. b, f, h.

Lat. $b=\text{origl.}\ bh$ in medio, e.g. $amb\bar{o}$ (both)=Gk. aupha, cf. Sk. $ubh\bar{a}u$, earlier $ubh\bar{a}$, Goth. bai, nt. ba (with loss of init. sound), Scl. oba, f.f. of st.=ambha-; bub-et (pleases), Sk. \sqrt{bubh} (desire), Goth. bub (in bub-s, dear, $-bub\bar{o}$, love, etc.); $n\bar{e}bula$ (mist), $n\bar{u}bes$ (cloud), Gk. $ve\phi \hat{e}\lambda \eta$, $v\acute{e}\phi os$, Sk. $n\acute{a}bhas$ (cloud, sky), O.H.G. $n\ddot{e}bal$, Scl. nebo (sky); $-b\bar{v}$ in ti- $b\bar{v}$, i- $b\bar{v}$, (c)u-bi, corres. to Sk. -bhyam, sf. dat. sg. (only preserved in certain cases, e.g. tu-bhyam, -bhya=Lat. ti- $b\bar{v}$); -bus, sf. dat. abl. pl.=Sk. -bhyas, cf. Gk. $-\phi uv$, both alike containing particle bhi: \sqrt{fu} in verb. fms. composed by it begins with b, e.g. ama-bam, ama-bo, for *ama-fam, *ama-fo (v. post. "conjugation").

Lat. f=origl. bh, e.g. \sqrt{fa} in $f\bar{a}$ -ri (speak), $f\bar{a}$ -tum (utterance, fate), origl. bha, cf. Gk. ϕa in $\phi \eta$ - μl , $\phi \omega$ - $\nu \dot{\eta}$, $\phi \dot{\alpha}$ - $\tau \iota s$, Sk. $bh\bar{a}$ - \dot{s} (speak); \sqrt{fer} , pres. fer-o (bear), cf. Gk. $\phi \epsilon \rho$ in $\phi \dot{\epsilon} \rho$ - ω , origl. and Sk. bhar, pres. $bh\dot{\alpha}r$ - $\bar{a}mi$; \sqrt{fu} (be) in fu-turus, fu-am, Sk. and origl. bhu, Gk. ϕv in $\phi \dot{v} \dot{\omega} \omega$, ϕv - $\tau \dot{o} s$; \sqrt{fug} in fug-io (flee), fug-a, cf. Gk. $\phi v \gamma$ in $\phi \dot{\epsilon} \dot{\nu} \gamma$ - ω , $\phi v \gamma$ - $\dot{\eta}$, Sk. $bhu\dot{g}$, Goth. bug, pres. biuga, origl. bhug; $fr\bar{a}ter$ (brother), origl. $bhr\bar{a}tar$ -s, cf. Gk. $\phi \rho \dot{\alpha} \tau \omega \rho$, Sk. $bhr\dot{a}t\bar{a}$, Goth. $br\bar{o}thar$, etc.

Lat. h is very rarely=origl. bh; e.g. in hor-da bes. for-da (bearing), \sqrt{fer} , origl. bhar; in mi-hi, -hi stands for -bi, which we should have expected, as also in Sk. $m\acute{a}-hyam$ for *ma-bhyam,

§ 73. cf. ti-bi, Sk. tú-bhyam; in both langg. the initial m seems to have had a dissimilating influence on the bh. We must not hence venture to assign a fm. ma-hyam to the origl. lang., for the origl. could only be sounded ma-bhyam (or ma-bhiam, ma-bhiyam, cf. § 3), a f.f. which diverged later into Sk. má-hyam, Lat. mi-hei; in dat. pl. of a-st., in -īs fr. -ois, -ais, origl. -a-bhyams, -ā-bhyams (v. 'decl.'), origl. bh has entirely disappeared, perh. through intervening h (cf. mihi); so too prob. ama-ui for *ama-fui, \$\sqrt{fu}\$, origl. bhu (be).

Note.—In some exx. a Lat. tenuis stands apparently for an asp.; these are rutilus (fiery red) bes. Sk. √rudh, Gk. ρυθ; pati (suffer) bes. Gk. $\pi \alpha \theta \epsilon \hat{\imath} \nu$; pūtēre (stink) bes. Gk. $\pi \hat{\nu} \theta - \epsilon \sigma \theta \alpha i$; putare (calculate) bes. Gk. πυθέσθαι (learn), otherwise distinct from it in use; sapiens (wise) bes. Gk. σοφός; latere (escape notice) bes. Gk. λαθείν, Sk. √rah for oright radh. Cf. L. Meyer, Gr. of Gk. and Lat. Langg., i. p. 51; G. Curt. Gr. Et.2 p. 374, Kuhn's Zeitschr. ii. 355; Grassmann ap. Kuhn, id. xii. 86 sqq.; Corss. Krit. Beitr. p. 75 sqq., 79 sqq. Herein we concur in the conclusions of Curt. and Corss., which amount to this,—that in the above-named words also t and p are not=origh, dh, bh, Gk. θ , ϕ . ru-tilus (cf. fu-tilis, mu-tilus) seems to have sf. -tilo, and to stand peculiarly for *rud-tilus, *rus-tilus (v. post.), like early Lat. ad-gre-tus, e-gre-tus, for *-gred-tus, *-gres-tus (class. gressus, √grad, gred, in grad-ior, step), pa-tior however is a later fmn. fr. \sqrt{pa} , which is otherwise formed in Gk. $\pi a - \theta$, $\pi \epsilon \nu - \theta$ ($\pi \epsilon \nu \theta o s$, suffering, grief); to the oright existence of the shorter root-fm. pa, $\pi \alpha$, the fms. $\pi \dot{\epsilon} \nu$ -o $\mu \alpha \iota$ (am in want), $\pi o \nu$ - $\dot{\epsilon} \omega$ (suffer, labour), point; therefore $\pi\epsilon - \nu$, $\pi\epsilon - \nu$, give evidence to $\pi\alpha$, just as $\gamma\epsilon - \nu$, $\gamma\epsilon - \nu$ (beget), do to a real pre-existent ya (n is a common secondary root-termn.). The same explan. holds good in puteo, where t belongs to the oright root as little as does θ in $\pi \dot{v} - \theta o \mu a \iota$; the root is pu, which clearly occurs in Lat. pus, gen. puris (matter), i.e. *pou-os, *pou-es-os, f.f. pav-as, pav-as-as, cf. πύ-ον (id.), Sk. $p\vec{u}$ -yatē (becomes foul, stinks), $p\vec{u}$ -ya-s (matter), Lith. $p\vec{u}$ -ti (befoul), O.H.G. fū-l (foul), f.f. pau-ra-s. Pu-tare fr. putus (pure), lit. ='make clean, clear,' and has therefore nothing to do with Gk. $\pi \nu \theta \acute{\epsilon} \sigma \theta a \iota$, Sk. \sqrt{budh} , etc.; $\sigma \circ \phi \acute{\delta} \circ s$ stands for * $\sigma \circ \sigma \sigma \circ s$ with unorigh. aspn., cf. supr. § 62, 3, n. 2. Thus latere alone remains unexplained bes. λαθείν, a solitary instance, for which we must not try to make good a consonantal change which is otherwise unknown.

CONSONANTAL PROLONGED-SOUNDS.

Spirants y, s, v.

1. Origl. y = Latin j (written i), i.

Lat. j=origl. y, initial and medial, yet not commonly between vowels, and almost only after long vowels, e.g. $c\bar{u}$ -ius, $pleb\bar{e}$ -ius, or when a conson. has assimilated itself to the y, as in $\bar{a}io$, $m\bar{a}ior$, $m\bar{e}io$ (v. post.), e.g. \sqrt{iug} , Sk. $yu\acute{g}$, Gk. $\zeta v\gamma$, origl. yug, in iu-n-go, (join), iug-um (yoke)=origl. and Sk. yug-am, Gk. $\zeta v\gamma$ -ov, Goth. yuk, O.Bulg. igo=*jug-o; pronl. \sqrt{ya} in ia-m (already), cf. Lith. $ya\acute{u}$, Goth. yu (already); ius (broth), cf. Sk. $y\bar{u}\check{s}a$ -s, $y\bar{u}\check{s}a$ -m ('pease-soup,' 'the water in which pulse of various kinds has been boiled;' Wilson), Scl. iucha; iuuenis (young man), cf. Sk. $y\dot{u}van$ -, Goth. yuggs, Scl. $yun\ddot{u}$, Lith. $ya\dot{u}nas$ (young); $\bar{a}io$ (say) for *ag-io, pres. fmn. in sf. origl. ya, \sqrt{ag} , origl. \sqrt{agh} , cf. ad-ag-ium (saying), Sk. ah (say); $m\bar{a}ior$ (greater) fr. *mag-ior, comp. sf. -ior, earlier -ios, Gk. -iov, Sk. - $y\bar{a}s$, - $\bar{i}y\bar{a}s$, origl. -yans; $m\bar{e}io$ =*migio, i.e. *migh- $y\bar{a}mi$, pres. fmn. in origl. ya, etc.

Lat. i=origl. y after consonn., e.g. med-ius=origl. and Sk. $m\acute{a}dhyas$, cf. $\mu\acute{e}\sigma\sigma\sigma\varsigma=*\mu\epsilon\theta\text{-}y\sigma\varsigma$; patr-iu-s (father-), origl. patar-ya-s, cf. $\pi\acute{a}\tau\rho\text{-}i\sigma$ -s, Sk. pitr-ya-s, st. origl. patar-, sf. ya; siem, siet (1, 3, sg. opt. pres.), origl. $as\text{-}y\bar{a}\text{-}m$, $as\text{-}y\bar{a}\text{-}t$, cf. $e\acute{i}\eta\nu$, $e\acute{i}\eta$, fr. $*\acute{e}\sigma\text{-}y\eta\text{-}\mu$, $*\acute{e}\sigma\text{-}y\eta\text{-}\tau$, Sk. $sy\bar{a}\text{-}m$, $sy\bar{a}\text{-}t$, opt. pres. $\checkmark as$ (be); capio for $*cap\text{-}y\bar{o}$, i.e. $*kap\text{-}y\bar{a}\text{-}mi$, pres. in origl. ya, etc.

Not uncommonly y disappears entirely, thus regularly betw. vowels, as, e.g. moneo (remind, warn), f.f. mānayāmi, causative from \sqrt{men} (men-tem, me-min-i), origh. man (think); sēdo (seat, set), fr. *sēdao, *sēdayo, Sk. and origh. sādáyāmi, caus. from \sqrt{sed} (sedere), origh. sad; further before i and e which stands for i (§ 35, § 38), e.g. capis, capit, for *capyis, *capyit, i.e. kap-ya-si, kap-ya-ti, bes. capio, i.e. kap-yā-mi; obex (obstacle, hindrance), gen. obicis, for *obyex =*ob-yic-s, ob-yic-is, \sqrt{iac} (cf. iac-io, ob-iic-io, ob-ic-io); yet elsewh.

§ 74.

- § 74. after consonn. also, e.g. minor, minus (less), for *min-ior, *min-ius, origl. sf. -yans, compar.-fmn.; ero, eris, erit, fr. *eso, *esis, *esit, for *esyo, *esyis, *esyit, f.f. as-yā-mi, as-ya-si, as-ya-ti, pres.-fmn. through ya of √as, which expresses fut meaning, cf. Sk. s-yā-mi, s-yā-si, s-yā-ti, Gk. ἔσομαι for *ἐσ-yo-μαι; -bus sf. of dat. and abl. pl. origl. -bhyams, Sk. -bhyas, etc.
 - 2. Origl. s=Lat. s, r.

Lat. s=origl. s. Initially, generally also finally, medially betw. mute consonn.; betw. vowels s passes over into r almost always in the class. lang. Before sonant consonn. s partly falls out (becomes assimld.), partly likewise becomes r (v. 'sound-laws'), e.g. \sqrt{sed} (sed-ere), origl. and Sk. sad, Gk. $\delta\delta$, Goth. sat (sit); septem (seven), Sk. and origl. $s\acute{a}ptan$, Gk. $\acute{\epsilon}\pi\tau\acute{a}$; \sqrt{sta} (stand), e.g. in sta-tus, origl. sta, Gk. $\sigma\tau a$, Sk. stha; \sqrt{ster} in ster-no (strew), Sk. and origl. star, Gk. $\sigma\tau a$, Sk. stha; \sqrt{ster} in ster-no (strew), Sk. and origl. star, Gk. $\sigma\tau a$, Sk. stha; $\sigma\tau a$, origl. and Sk. $\sigma\tau a$, Gk. $\sigma\tau a$, Gk. $\sigma\tau a$, Gk. $\sigma\tau a$, Gr. $\sigma\tau a$, Gr.

Lat. r = origl. s (cf. sound-laws, § 77, 1. f.).

3. Origl. v=Lat. v (in writing undistinguished fr. u), u.

Lat. v = origl. v, e.g. \sqrt{vid} in video (see), Sk. and origl. vid, Gk. $F \circ \delta$; \sqrt{vom} for vem in $vom \circ o$ (spue), Sk. and origl. vam, Gk. $F \circ \mu$; \sqrt{voc} for vec in $voc \circ are$ (cry), $voc \circ are$ (acc. voice), origl. vah, Sk. vah, Gk. vah, Gk. vah, Gk. vah, Graph in vah in vah origl. vah, Sk. vah, Gk. vah, Godh. vah; vah in vah origl. vah (uelle); vah origl. vah origle. vah origle.

Note.—Though quis, quod, anguis, suauis are the usual ways of writing those words, yet here, too, u = v (thus qvis, qvod, angvis, svauis), because this u is not metrically = yowel.

Lat. u = origl. v after mom. consonn. and n, e.g. quatuor (four). 8.74.Sk. katráras, Gk. τέτταρες=*τετ Faρες, Goth, fidvor, origh. kat $v\bar{a}ras$; this u=v seems secondarily to have the force of a conson., whence e.g. the lengthening by position of the short a. expressed in the spelling quattur; esp. often u = origh, v in the origl. st.-fmative sf. -va=Lat. -uo, -vo, later uu, vu, which in Lat. were sounded -uo (later -uu), fem. -ua, after most consonn. except r, l, q, e.g. al-u0-s ('the nourishing —'), \sqrt{al} (al-o, nourish); $ar-\ddot{u}o-m$ ('the ploughed—'), \sqrt{ar} (plough); $eq-\ddot{u}o-s$ (horse), origh. ak-va-s, Sk. \acute{a} c-va-s ('the running --'), oright \sqrt{ak} (run), etc.; but uac-uo-s (empty), \(\square\) uac; noc-uo-s (hurtful), re-lic-uo-s (left over) bes. re-lig-vo-s, \(\sqrt{noc}, \lic \) (altogether usage often wavers betw. v and u, as aquae, acuam, bes. aqva; tenvia, genva, bes. tenuia, genua, etc.); con-tig-uo-s (contiguous), \(\sqrt{tag} \) (tango); de-cid uc-s (falling off), \sqrt{cad} (cad-o); in-gen-uo-s (inborn, free), \sqrt{gen} (gi-gn-o, gen-us); $s\bar{u}d-or$ (sweat), $s\bar{u}d-are$ (sweat), prob. for *suid-or, *suid-are (as e.g. gen. senatus for senatuis), and this for *svid-or, *svid-are, \svid, cf. ιδίω for *σΓιδ-ιω, Sk. svid-yāmi, O.H.G. swizzan, sweiz, swiz, earlier svit, origh. svid (sweat), etc.

Note.— $su^{n}s$ (his) is not=sva-s, but was sounded sovos in the earlier lang.; accordingly we have also $tu\hat{u}s = tovos$; in Lat. and in Gk. there is here a step-fmn. of u to eu, ou ($\epsilon\acute{o}s$, $\tau e\acute{o}s = *seu$ -os, *teu-os), whilst the other lange. show v.

Not unfreq. v disappears entirely, thus e.g. se, si-bi (himself), etc., for *sve, *svi-bi, fr. st. origl. sva-; te (thee), ti-bi (to thee), for *tve, *tvi-bi, cf. Sk. tva-m (n. sg.); for origl. initial sva-, so-occurs regularly (v. supr. § 33); canis (hound) for *cvan-is, cf. κύων, Sk. st. çvan, f.f. kvan-; suadeo (recommend) for *suadveo, fr. suauis (sweet)=*suadv-i-s, cf. G. ήδύ-s, Sk. svādú-s; deus (god)=*dēus, *dēvo-s, *deivo-s, *dīvo-s, f.f. daiva-s, cf. Sk. dēvá-s, Lith. dēva-s. The later lang. permits frequent loss of v from betw. vowels, e.g. suus, suum, for earlier (inscrr.) souos, souom (*suvus, *suvum); fluunt, earlier (inscrr.) flouont; fui=*fuvi, and so, too, in other like cases; boum for bouum; prudens fr. prouidens;

§ 74. $n\bar{o}lo=*neuolo$; amarunt=amauerunt, etc. Yet nouos, ouis, etc., with v preserved, are the only fms. found.

Note.—On the alleged change of v to b in Lat. v. Corss. Krit. Beitr., 157 sqq. Only in *ferbui*, pf. fr. pres. *ferueo* (boil), v after r and bef. u has become b; bubile bes. bouile (ox-stall) seems caused by the analogy of bu-bulus (ox-); opilio, upilio (shepherd), stand for *oui-pilio, cf. Pal-es, al- π o λ -os, β o ν - π o λ -os (Corss. ib. 152; Krit. Nachtr., p. 180 sqq.).

§ 75. Nasals.

1. Origl. n=Lat. n. As in other Indo-Eur. langg., so also in Lat., origl. n bef. gutt. consonn. becomes gutt., bef. labb. it becomes lab., i.e. m, ($\dot{n} = \text{gutt. } n$, § 4). Exx.: ne (negation), in ne-c, ne-fas, etc., Sk. and origl. na; in-, Umbr. an-, Gk. av-, Sk. and origl. an- (neg. in composn.); \(\square \) in nec-are (kill), noc-\(\bar{e}\)re (l. 12 - 5 k. νεκ, Sk. naç, origl. nak; st. noc-ti (night) in noc-te-m, origl. nak-ti-, cf. Lith. nak-tì-s, Gk. st. νυκτ-, Sk. nάkta-m (adv. by night); nāuis (ship), Sk. and origh. nāus, Gk. ναῦς; √gen in gen-us (race), gi-g(e)n-o (beget), Gk. $\gamma \epsilon \nu$, Sk. gan, oright gan; nis common in suff., e.g. origl. -na in plē-nu-s (full), f.f. prā-na-s, origl. par-na-s, \(\sqrt{par} \) (fill), na fms. the perf. part. pass., but has also various other functions, e.g. som-nu-s (sleep) for *sop-nu-s, origl. and Sk. sráp-na-s, Gk. υπ-νο-ς; sf. -man, e.g. in *gnō--men, nō-men (name), Sk. nā-man-, origl. gnā-man-; -nti, -nt, fm. 3 pl. vb., e.g. *fero-nti, feru-nt,=φέρο-ντι, Sk. and origl. bhára-nti, etc.

Exx. of change of n to \dot{n} , m, are found in pres. fmn., e.g. iu-n-go (join), \sqrt{iug} , ru-m-po (break), Sk. lu-m- $p\acute{a}mi$, \sqrt{rup} , Sk. lup, which in f.f. were prob. yug- $n\~{a}mi$, rup- $n\~{a}mi$; only later did the nasal pass into the root, whereby arose $yuiy\~{a}mi$, rum- $p\~{a}mi$, i.e. iungo, rumpo.

Note.—On gn v. supr. § 72, 1, n. 5.

2. Origl. m = Lat. m, e.g. \sqrt{men} in me-min-i (remember), men-tem, mens (mind), moneo (warn), Gk. $\mu e \nu$, origl. and Sk. man (think); $m\bar{a}$ -ter (mother), $\mu \acute{\eta}$ - $\tau \eta \rho$, Sk. $m\bar{a}$ -t \acute{a} , origl. $m\bar{a}$ -tar-s;

√mor in mor-i (die), mor-tuos (dead), Sk. and origh. mar; √uom § 75. for *uem in uom-o (spue) (§ 33), Gk. Feμ, Sk. and origh. vam, etc. In sff. also m often occurs, e.g. sf. -men, origh. man, as in *gnō-men, nō-men, Sk. ná-man-, origh. ynā-man; origh. sf. -ma, an intensitive, most often forming superh, esp. in combination with sf. -ta, as ta-ma, Lat. e.g. in pri-mu-s, optu-mu-s; -m 1 pers. sg., -mus 1 ph., e.g. (e)s-u-m fr. *es-mi, Gk. εi-μl fr. same f.f., Sk. and origh. ás-mi; feri-mus, Gk. φέρο-μεν, Dôr. φέρο-μες, Sk. and origh. bhárā-masi; -m of acc. sing., e.g. equo-m, Sk. áçva-m, ef. Gk. ἵππο-ν, with ν for μ, acc. to Gk. sound-laws of termn., origh. akva-m, etc.

Note.—In tene-brae (darkness), prob. for *tenes-brae, *temes-brae, \sqrt{tam} in Sk. $t\acute{a}m$ -as (darkness), O.H.G. $d\ddot{e}m$ -ar (dawn), etc., n has arisen by dissimiln. fr. m, to avoid the labialism *temelinae: in $n\ddot{o}nus$ (ninth) for * $n\ddot{o}mus$, *nouimus, ef. nouem (nine), septimus bes. septem, decimus bes. decem, primus, etc., the init. n has had an assimilating influence; gener (son-in-law) does not stand for *gemer on acct. of $\gamma a\mu\beta\rho\dot{o}s$ (on which cf. § 66, 1, n. 1), because *gemer would have stood its ground like $u\ddot{o}mer$ (ploughshare), also Sk. $\dot{g}\dot{a}$ - $m\ddot{a}tar$ - (son-in-law) proves nothing, because it is a compd. of $\dot{g}\ddot{a}$ (come after) from \sqrt{ga} , origl. ga (gi-gn-ere), and $m\ddot{a}$ -tar- (bearing, bringing forth); gen-er, st. gen-ero- for gen-ro-, is derived rather fr. \sqrt{gen} (beget), sf. ra, in this case with auxil. vowel i, pronounced e bef. r (§ 38).

r- and l-sounds.

§ 76.

Origl. r=Lat. r, l.

 § 76. stem-formative particles, thus in sff. ro, ru, origl. ra (rub-ru-m, origl. rudh-ra-m); tōr, origl. tār (da-tōr, origl. da-tar-s, n. sg.); tro, tru, origl. tra; in word-formative particles, i.e. in case- and person-termns., it does not occur.

Lat. $l=\text{origl.}\ r$ (cf. 'sound-laws,' upon Lat. interchange of l with r for purposes of dissimiln.), e.g. \sqrt{loc} (speak) in loqu-or, loc-utus, Gk. $\lambda a \kappa$, Scl. rek (rek-q, loquor), origl. rak; \sqrt{luc} in luc-erna (lamp), $l\bar{u}c\text{-}em$ (acc. light), Gk. $\lambda \nu \kappa$, Sk. ruk, Goth. luh, origl. ruk; \sqrt{lic} in linquo (leave), re-lic-tus, Gk. $\lambda \iota \pi$ ($\lambda \epsilon l \pi \omega$), Sk. rik, origl. rik; \sqrt{lig} in lingo (lick), Gk. $\lambda \iota \chi$ ($\lambda \epsilon l \chi \omega$), Sk. lih, origl. righ; \sqrt{lub} in lub-et (it pleases), Goth. lub (liubs, love), Sk. lubh (desire), origl. rubh; leuis (light) fr. *lequ-is, cf. Gk. $\hat{\epsilon}$ - $\lambda a \chi \hat{\nu}$ -s, Sk. $lagh\hat{u}$ -s, origl. raghu-s; $pl\bar{\epsilon}$ -nu-s (full), f.f. $pr\bar{a}$ -na-s, parall. fm. to par-na-s, Zend $peren\bar{o}$, Sk. $p\bar{u}rn\hat{a}$ -s, i.e. origl. par-na-s, Goth. fulls for *ful-na-s; sollus (whole, Fest.) for *soluo-s, parall. fm. to sal-uo-s (whole), Gk. * $\delta \lambda Fos$, Sk. and f.f. $s\acute{a}r$ -va-s; \sqrt{uol} , uel, in uol-t (he wills), f.f. var-ti, uel-le (will), for *uel-se (v. post), Sk. and origl. var (choose), etc. In st.-formative particles also l is common.

§ 77. Sketch of some Sound-laws which are important for Comparative Grammar.

MEDIAL.

- 1. Assimilation. We omit here the assimilas, which occur in prepositional compds.; they bear a subordinate meaning for Compar. Gr., and belong to the Special Gr. of Latin. Further, except that they are treated as well known, they are not at all, or only briefly, mentioned.
- a. Complete assimiln. of foregoing to following consonn. This occurs after long vowels, after which doubled consonn. cannot easily be made audible, and can scarcely be distinguished from evanescence (ejection) of the former conson.; whilst after short vowels the doubling of the conson. is the distinctive mark of real assimiln. As, however, the evaporation of one conson. bef. another can hardly be conceived of as con-

ditioned in any other way than by assimiln. to the follg. cons., we § 77. likewise treat here of cases where consonn. are lost before consonn.

The doubling of consonn. was not characterized in writing before Ennius; in inserr. it does not appear in frequent use until after 640 A.v.c.

Note.—Upon the doubled tenuis in Lat. cf. C. Pauli, Zeitschr. xviii. 1 sqq., where many words of difficult etymol. are considered. Acc. to Pauli the doubling is not seldom unorigl., and arises 'through sharpened pronunciation.'

Exx. of complete assimiln. of foregoing to follg. consonn. after short vowels are found in sum-mu-s for *sup-mu-s, cf. sup-er, sup-erior, sup-remus; flamma fr. *flag-ma, cf. flag-rare; serra (saw), prob. fr. *sec-ra, cf. sec-are (cut); sella fr. *sed-la, cf. sed-ere; lapil-lus fr. *lapid-lus, cf. lapid-em; puel-la fr. *puer-ia, *pueru-la, cf. puer; ascl-lus fr. *asin-lus, *asinu-lus, cf. asinu-s (ass); esse fr. *ed-se, cf. ed-o (cat); penna fr. *pesna, and this fr. *pet-na, \(\sqrt{pet}, \) origl. pat (fly), etc.

Complete assimiln. of foregoing to follg. consonn. after long vowels; the spelling does not show the doubling in these cases. The assimiln. (dropping out) of d, t, and often n before s, is well known; a foregoing short vowel therefore becomes long, wherein we believe we see an evidence that a doubling of the conson. was once really in existence, e.g. suāsi fr. *suād-si, pf. fr. suād-eo, etc.; pēs=*pēd-s, ef. pēd-en; milēs, milēs only later, fr. *milēt-s, ef. milit-em; formōsus fr. *formonsus, sf. origl. -vans fr. -vant, whose v disappeared; equōs fr. *equon-s, i.e. acc. sg. equo-m+pl.-sign s; consul bes. cōsul; quotiens=*quotient-s bes. quoties; censor, censeo, bes. rarer cēsor, cēseo, etc. Thus the lang. has sometimes decided early in favour of loss of n, whilst at others the n has stood exclusively for a longer time, and until a later period of written lang.

A follg. j assimilates itself not seldom to precedg. g; j is then written indivisibly, but the foregoing vowel, if short before, now becomes long (cf. § 39, 1), e.g. $m\bar{a}$ -ior fr. * $m\bar{a}g$ -yor, cf. mag-nus, \sqrt{mag} , origh. magh (wax); \bar{a} -io fr. * $\bar{a}g$ -yo, cf. md- $\bar{a}g$ -iver

§ 77. √ag, Sk. ah, origl. agh (say); mē-io by dissimiln. (cf. § 38) fr. *mi-yo for *mig-yo, cf. mi-n-g-o, √mig, Gk. μιχ, origl. migh (cf. § 74, 1). Bef. origl. sf. -ya, g remains, because here y changes into i (§ 74, 1), e.g. ad-äg-iu-m, nau-fräg-iu-m. Cf. the extensive loss of consonn. before y with compensatory lengthening in composition, e.g. se(d)-iungo, pe(r)-iero, di(s)-iudico, tra(ns)-icio, etc.

Loss of g bef. v without compensat. lengthening occurs, e.g. in breu-is for *bregu-is, cf. $\beta \rho a \chi \acute{v}$ -s; leu-is for *legu-is, cf. \acute{e} - $\lambda a \chi \acute{v}$ -s; niu-is for *nigu-is, cf. nix=*nig-s, ningu-o; accordingly the same process must be assumed in $u\bar{u}uo$ for * $u\bar{u}gu$ -o, cf. uixi, i.e. *uig-si, \sqrt{uig} (v. §§ 72, 1; 73, 1).

d disappears bef. v in suāu-is for *suād-uis, cf. Gk. ήδύ-ς, Sk. svādú-s.

Bef. nasals sometimes g, oftener c, disappears (c may also remain and become g, v. c in this section), more rarely without, more often with compensatory lengthening, c was evidently softened to g before it fell out (v. c), e.g. sti-mulus (goad), sti-mulo (I goad), sti-stig, raised a step to stig (in-stig-o, urge), nasalized in in-stinc-tus (urged) = in-sting-ius, cf. Gk $\sigma\tau l\chi\omega$ (prick) = $\sigma\tau\iota\gamma$ - $y\omega$; ex- \bar{a} -men (swarm of bees, rank) for ex- \bar{a} -men, ex- \bar{a} -men

Before m, c disappears in $l\bar{u}(c)$ -men (light), where it is doubtful whether the vowel is simple or whether it is raised in the scale, whether fr. * $l\bar{u}c$ -men or *louc-, * $l\bar{u}c$ -men; cs, i.e. x, disappeared bef. m in $s\bar{e}$ -mestris (six-monthly) for *sex-mestris, prob. also in $t\bar{e}$ -mo (pole) for *tex-mo, cf. O.H.G. $d\bar{u}hs$ -ila, and Sk. \sqrt{tak} (compose, make).

Bef. m, b disappears, e.g. glūma (shell) for *glūb-ma, cf. glūb-ere (pare); grēmium (lap) for *greb-mium, cf. Sk. gárbha- (masc. id.), etc. (Corss. Krit. N. p. 236).

Bef. l, x has died out in $t\bar{e}-l\bar{d}$ (web), which, however, can only § 77. be explained as prob. coming fr. *tex-la, cf. tex-ere (weave).

Bef. c, d and t disappear in hoc for *hod-c, *hod-ce, ef. quod; ac for *at-c, ef. atque.

Bef. sonant consonn. s disappears, thus e.g. bef. n in $p\bar{o}$ -no for *pos-no, cf. pos-ui; $c\bar{e}$ -na for *ces-na, cf. Umbr. ccs-na; penis for *pes-nis, cf. π éos for * π eo-os, Sk. pás-as; in penna for earlier pesna the assimiln. has been kept, pesna stands for * π pet-na (v. c), π pet, π et, Sk. pat (fly), cf. prae-pet-es (aues; Fest.), O.H.G. fed-ara, fed-ah, Gk. π t-l π 0v, π te-póv (feather, wing), etc.

Bef. m, s is lost in $r\bar{e}$ -mus (oar), cf. tri-resmus (three-oared) Col. Rostr., res-mus stands for *ret-mus, cf. \dot{e} - $\rho e \tau$ - $\mu \dot{o} s$; s is lost without compensatory lengthening in $C\ddot{a}$ -mena for Cas-mena. \sqrt{cas} , cf. car-men, Sk. \sqrt{cas} , \sqrt{cas} (count, say).

Bef. n and m, s also becomes r. v. e.

Bef. l, s is lost in corpu-lentus for *corpus-lentus, cf. corpus, corpor-is.

Bef. d, s is lost in, e.g. $i\bar{u}$ -dex for * $i\bar{u}s$ -dex, $\bar{\imath}$ -dem for *is-dem. d $\bar{\imath}$ -duco for *dis-duco, etc., but it remains in trans-d \bar{u} co, trans-do, bes. $tr\bar{a}$ -d \bar{u} co, $tr\bar{a}$ -do, further in cases like eius-dem, cuius-dum.

Bef. b, also, s is lost, e.g. tene-brae for tenës-brae, and the like: v. post.

Bef. d, r is lost with compensat. lengthening in $p\bar{e}d$ -o, $p\bar{o}d$ -ex, bes. $\pi \acute{e}\rho \delta$ - ω , Sk. \sqrt{pard} , O.H.G. farz, Lith. perd (1 sg. pres. $p\acute{e}rdzu=*perd$ -yu).

The change of r to s by assimiln. is well known, e.g. rūsum, russum, bes. rur-sum, sū-sum bes. sur-sum, retrō-sum bes. retror-sum, etc.

Bef. sc, consonn. are lost, prob. only to make pronunciation simpler and easier; thus in di-sco for *dic-sco, cf. di-dic-i; po-sco (where sc became fixed, though origl. only in pres., cf. po-posc-i), prob. for *porc-sco, cf. \(\sqrt{proc}\), proc, prec, in proc-ax, proc-us, prec-or, cf. Germ. frah, frag (in Goth. fraih-nan-, N.H.G. frag-cn); mi-scco for *mig-sceo, cf. \(\mu\beta\)-νυμι (here, too, has the sc in Lat. grown into the root).

§ 77. Similarly mis-tus stands for and bes. mics-tus, mix-tus, and this prob. for *misc-tus, cf. misc-eo; tos-tus for *tors-tus, cf. torr-eo for *tors-eo, Germ. durs-t, Sk. \sqrt{tars} (thirst), i.e. tars, to which prob. belongs tes-ta (crock, jar) for *ters-ta (lit. 'baked,' 'burnt'); cf. terra (dry land) for *ters-a.

It is certain that certain groups composed of more consonn. were lightened by the evaporation (ejection) of one of these consonn.

Thus after r, l, are lost gutt. c, g, when folld. by t or s, e.g. sar-tus for *sarc-tus, cf. sarc-io; tor-tus for *torc-tus, cf. torqu-eo; ul-tor for *ulc-tor, cf. ulc-iscor; in-dul-tus for *in-dulc-tus, and this for *in-dulg-tus fr. in-dulg-eo, and so others; sar-si for *sarc-si, cf. sarc-io; tor-si for *torc-si, cf. torqu-eo; mul-si, mul-sus, for *mulg-si, *mulg-sus, fr. mulg-tus, cf. mulg-eo; spar-si for *sparg-si, spar-sus for *sparg-sus fr. sparg-tus, cf. sparg-o, etc.; par-simonia for *parc-simonia fr. *parc-timonia, like the underlying fm. par-sus fr. *parc-tus, cf. parc-o; thus also ursus for *urcsus fr. *urctus, cf. Gk. åpktos, Sk. ŕkšas.

On the other hand, rcs was tolerated in fine, in arx, merx.

Also the combinations s-br, r-br are avoided by the evaporation of the s, r, bef. b, e.g. mulie-bris for *mulier-bris (or *mulies-bris); fune-bris for *funes-bris bes. funer-a, funus; tene-brae for *tenes-brae, *temes-brae, (§ 75, 2, n.); fe-bris, he-bris, for *fer-bris, \sqrt{fer} (in fer-uor, etc.), origl. ghar (§ 73, 1; Corss. Krit. Beitr. 204 sqq.; Ebel, Zeitschr. xiv. 78; cf. L. Meyer, Comp. Gr. ii. 235, 241). Similarly-in above-mentioned tos-tus for *tors-tus, etc.

Quintus for Quinc-tus is late, cf. common Quinc-tius bes. later Quin-tius; the same holds good in au-tor for auc-tor fr. *aug-tor, etc. Yet it cannot be doubted that c was lost bef. t sporadically even at an earlier period of the lang. in such cases as in-uītus fr. *in-uic-(i)-tus, \sqrt{uic} , uec, Gk. $Fe\kappa$ ($\epsilon\kappa$ - $\epsilon\nu$), Sk. vac, i.e. vak (will): in- $u\bar{\imath}$ -tare fr. *in-uic-(i)-tare, \sqrt{uic} , uec, uoc (uoc-are), Gk. $Fe\pi$, Sk. vak, origl. vak (speak), etc. (cf. Corss. Krit. B. p. 4 sqq., and Krit. N. p. 47 sqq. where other views, however, are expressed). Also Vitoria, Vitorias, are supported

by inserr. as by-forms of *Victorius*, -a (Corss. Krit. N. p. 45 § 77. sqq.). v. another explanation of *invitare*, etc., in § 39, 2.

b. Complete assimiln. of following to foregoing consonn. This branch of assimiln. is well represented in Lat.; thus e.g. t of superl. termn. -timu-s (origl. and Sk. -tama-s, retained in op-timus) is assimild. to s in -is-simus = *-is-timus; is, the shortest fm. of origl. -yans, which is in Lat. iōs, iōr, ius, is accordingly the compar.-sf. to which the superl. is added, e.g. longis-simus fr. *longis-tripina; so too t of -timus becomes assimild. to r and l in those superll. which are fmd. fr. an unraised adj.-stem, e.g. celer-rimus fr. *celer-timus, *facil-tumu-s, etc., unless these superll. stand (as G. Curt. conjectures in a letter) for *celer-is-timus, *facil-is-timus, *celerstimus, *facilstimus, *celerstimus, *facilstimus.

s is assimild. to r in torr-eo for *tors-eo bes. tos-tu-m for *tors-tu-m, terra for *ters-a, origl. \sqrt{tars} (be dry), as in Germ. dürr-e bes. durs-t; fer-rem, uel-lem, are fr. *fer-sem, *uel-sem, cf. ama-rem for *ama-sem, fac-sem, etc. (cf. Corss. Krit. B. 402 sqq.).

Perh. y has become similar to the preceding consonn. in pres. fmns. with doubled root-termns., as pello, fallo, curro, mitto, etc., though the combinations lio, rio, tio, are ordinary (v. pres.-st.).

v seems assimild. to preceding l in pallor, pallidus, for *pal-uor, *pal-uidus, cf. O.H.G. falo, falaw-er, falw-er, Lith. and f.f. palv-as (fallow—of deer); mollis, prob. fr. *molvis, *moldv-is, = Sk. mrdú-s, f.f. mardu-s; sollu-s (totus) equal to saluo-s, Sk. sárva-s, Gk. ő λ os for * $\delta\lambda$ Fos. In these double fms. (sollus: saluos::pello: alius) we must prob. recognize traces of a mixture of dialects.

t after s becomes assimld. to it, in censor, census, $\sqrt{cens} + sff$. -tor-, -tu-, cf. Osk. cens-tur, cens-tom = censum. Moreover, assimiln. of t to foregoing s occurs in the many cases where fr. d, t+t arise (subsequently st, cf. 2, Dissimiln.); after short vowels the doubling is expressed in writing as well, after long vowels, and after consonn. we find regularly only one s; yet we find by their side spellings such as fussus, cassus, divissio, rissus, etc.,—which have therefore a good foundation in the lang.,—

§ 77. e.g. fissus fr. *fid-tus, *fis-tus, \sqrt{fid} in findo, fid-i; gressu-s fr. *gred-tu-s, *gres-tu-s, cf. grad-ior; fossa fr. *fos-ta, *fod-ta, \sqrt{fod} in fod-io; passus fr. *pat-tu-s, *pas-tu-s, cf. pat-ior; ēsum for *essum, which we might have expected, fr. *ĕd-tu-m, *es-tu-m, cf. ĕd-o; clausus fr. *claud-tu-s, *claus-tu-s, cf. claud-o; ūsus (rarely ussus, inserr.) fr. *ūt-tu-s, *ūs-tu-s, cf. oit-ier, ūt-i; tonsu-s fr. *tond-tu-s, *tons-tu-s, cf. tond-eo; uicensumus, uicēsumus, fr. *uicent-tumu-s, *uicens-tumu-s (unless here, as in deci-mu-s, only mo was added, in which case the fm. would be *uiginti-mu-s); uersus, uorsus, for *uers-tus, *uors-tus, fr. *uert-tus, *uort-tus (uert-ere), etc. On this Sound-law, cf. Corss. Krit. B. 418 sqq. c. Partial assimiln. of foregoing to follg. consonn.

It is well known that bef. mutes mom. sonant consonn. bemute; e.g. ac-tus for *ag-tus, ef. ag-o; scrip-tus, scrip-si, for *scrib-tus, *scrib-si, ef. scrib-o, etc.; in uec-tus bes. ueh-o, origl. vagh-āmi, we must assume a representation of origl. gh by Lat. g: origl. vagh-ta-s, Lat. *ueg-to-s, ucc-tu-s. On the other hand, sec-are, salic-em, stand bes. seg-mentum, salig-nus, etc.; the sonant consonn. m, n, here change c to son. g.

Lab. moment. consonn. pass into their nasals bef. n: som-nus, Sam-nium, for *sop-nus, *Sab-nium (cf. sop-ire, Sab-\bar{z}ni, Sab-elli).

The earlier lang. still shows s bef. nasals, softened fr. t, as res-mu-s (rēmus) fr. *ret-mu-s (è- ρ e τ - μ ó-s); pes-na (penna) fr. *pet-na (\sqrt{pet} , fly, v. a).

Quadra-ginta bes. quatri-duo is peculiar; t bef. sonant r has become d.

From oright in Lat. there have arisen sometimes *thr, dhr, br, through the aspirating force of the r (v. supr. Gk., also Zend), (on b as a representative of oright dh, v. § 73, 2), e.g. consobrinus (cousin) for *-sosbrinus (s bef. b is lost regularly, v. sup.), and this for *sosdhrinus, *sosthrinus, *sostrinus, fr. *sostor-īnu-s, st. *sos-tor-, usu. *sosor-, soror- (sister); salūbris fr. *salus-bris, and this for *salus-dhris, *salus-thris, *salus-tris, *salut-tris (salus, salut-is). Cf. Ebel, Zeitschr. xiv. 78; Kuhn, Zeitschr. xiv. 222, xv. 238. On the other hand, Cors. Krit. N. p. 186 sqq.

d. Partial assimilation of following to foregoing § 77. consonants. This takes place esp. in the case of t, which, after nasals and liquids, commonly changes into spir. s; the same tendency is seen after gutt. (after c),—the latter occurs also in Sk. (v. § 52, 2, n. 2); e.g. man-sum for *man-tu-m (man-eo); in Leu-cesie—important on acct. of eu, v. § 36— (voc.; title of Iuppiter) for *leucetie, fr. *Leucentie, cf. Leucetios, Loucetios, for *leucent-ios, *loucent-ios, further fmm. fr. *leucent-, loucent-, pres. part. act. fr. *leuc-o, *louc-o, f.f. rauk-āmi, \(\sqrt{luc}, \) origl. ruk (Corss. Krit. B. 471); t has become s after origl. n, which afterwards was lost, in the same way; pul-su-s for *pul-tu-s (pel-lo, pe-pul-i), spar-sus for *spar(g)-tu-s (sparg-o), etc.; but by their side occur ten-tu-s (and ten-su-s), sepul-tu-s (sepcl-io), tor-tu-s for *tor(c)-tu-s, (torqu-eo), etc.; *mac-simu-s thus is for-*mag-timu-s (mag-nus; cf. op-timu-s); fixus, i.e. fic-su-s, for *fig-tu-s (figo); noxa, i.e. *noc-sa, for *noc-ta (noc-eo), etc., bes. ac-tu-s (ag-o), fic-tu-s (\sqrt{fig} in fi-n-g-o), and many others with retained t.

Regularly t does not pass into s after n, when nt belongs to one and the same word-formative particle, e.g. feru-nt, fere-nt-em, etc. (yet cf. above-mentioned Leucesios for *Leucentios).

Lapsus for *lap-tu-s, *lab-tu-s, is singular (cf. lab-i), bes. scrip-tu-s (scrib-ere), cf. Corss. Krit. B. 420 sqq. (Ebel, Zeitschr. xiv. 245 sqq. here assumes an inserted s: *lap-stus, *man-stum, to which t was assimild.)

Note.—Yet mend-ax belongs prob. to ment-iri, according to the system laid down by Schuchardt, Vocalismus des vulgärlateins, Lpz. 1866; cf. however on this point Aufrecht in Zeitschr. ix. 232; Corss. Krit. B. 117 sqq.

e. Change of s to r betw. vowels, or betw. vowels and sonant consonn., also after vowels in termination (in the lang. in question). The sonant consonn. here change the mute s into sonant r. The same process takes place, e.g. in Germ. also (war, wāren, for was, wāsen, \sqrt{was} , cf. ge-wēs-en, etc.), and in Sk. So, e.g. in gener-is (genus) for old Lat. *genes-os; maiores fr. *maioses; erat fr. *esat, \sqrt{es} , etc.;

- § 77. ueter-nus fr. *uetes-nus (uetus, ueter-\(^1\)s); car-men fr. *cas-men, cf. Old-Lat. Cas-mena, \(\sqrt{cas};\) diur-nus, ho-dier-nus, from an otherwise lost st. *dios-, *dies-=origl. divas (in dies, diei, the final s of the root has been lost), etc.; arbor for earlier arbos; amor fr. *amos, *amo-se, etc. In fine this r for s is caused through analogy of the other fms. (arbor-is, amar-is). Betw. vowels s has remained but rarely, e.g. nasus, cf. Sk. nas, Scl. nosü, etc., miser, uasa, posui; regularly s only remains instead of ss, e.g. casus for cassus fr. *cad-tu-s, etc. (v. b).
 - f. Loss of consonn. betw. vowels. Here too we see a kind of assimiln., in that sonant consonn. become thereby similar to the surrounding vowels, and are swallowed up by them, so that only the attendant accent remains.

In the Romance lange, this process is very common (e.g. ducatus, It. ducato, Sp. ducado, Fr. duché). The commonest case is the loss of y and v, as monco, monēs, fr. *moncyo, *moneyis, f.f. mānayāmi, mānayasi; amasti fr. *amaisti, amauisti; fluont, fluunt, fr. flouont, etc. Exceptionally s has been lost betw. two vowels (Corss. Krit. Beitr. 464 sqq.), thus e.g. in uēr (spring) fr. *veser, cf. Gk. čaρ for *Feσaρ, Lith. vasard (summer), Sk. vas-antá-s (spring), O. Bulg. ves-na; uīs, uim, bes. uires, uirium, st. uisi-, uiri-; prob. through analogy fr. origl. *divas- arose a fm. diēs, diēi, bes. ho-dier-nus, fr. *dives-no-s; fr. origl. and Sk. nábhas-, nūbēs, nūbi-s; fr. origl. and Sk. sadas- (cf. Gk. čδos), sēdēs, sēdi-s, and other like forms. Further, loss of origl. bh, Lat. f, b, has certainly occurred in ama-ui for *ama-fui, etc.; in dat. pl. e.g. equīs, f.f. akva-bhya(m)s (v. § 73, 3). On the doubtful loss of c betw. vowels, cf. § 39, 2; § 77, a, sub fin.; on loss of h, cf. § 73, 1.

- g. Evident insertion of conson. betw. concurrent consonn. The change fr. m to mp, for the accommodation of m to the follg. s, t, is well known; it occurs in the best MSS. (e.g. in Cod. Medic. Vergili), e.g. hiem-p-s, sum-p-si, sum-p-tus, etc. Bef. the s, t, m became an audible conclusion, i.e. changed to mp.
 - 2. Dissimilation.
 - t, d, before follg. t, change into s (as in Zend, Gk., Scl.-Germ.),

e.g. eques-ter, pedes-ter, for *equet-ter, *pedet-ter, of. equit-is, § 77. pedit-is; es-t, es-tis, for *ed-t, *ed-tis, of. ed-o; claus-trum for *claud-trum, of. claud-o; st. potes-tāti- (potestas) for *potens-tāti-fr.*potent-tāti-, st. potent- (potens) +sf. -tāti-, etc.

Likewise through the striving after dissimiln. -āli-s is interchanged with -āri-s; the latter is found in those cases where the word-st. to which this secondary sf. is added contains an l, e.g. mor-tali-s, but uolg-ari-s, popul-ari-s, epul-ari-s.

In the dislike of the immediate succession of two like sounds is found also the cause of the contraction of two like or similar consonn., which are separated by only one vowel, into one, through evanescence of the intervening vowel (cf. Gk. § 68, 2; a similar phenom. in M.H.G. has been mentioned by me in Kuhn's Zeitschr. x. 160); thus consuētūdo for *consuēti-tūdo (con-suētu-s), st. aestāti- for *aestitāti- (aestu-s), st. nūtrīc- for nūtrī-trīc- (nutrī-re), stipendium for *stipi-pendium (stip-s, stip-is), uenēficus for *uenēni-ficus (uenēnu-m), etc. (L. Meyer. Comp. Gr. i. 281).

INITIAL.

§ 78.

In Lat. more than in the other kindred langg., where loss of initial consonn. occurs in the main only sporadically, initial consonn. are exposed to evaporation: of two initial consonn. the former often falls away, yet even one single conson. is found to disappear bef. a follg. vowel (c bef. u).

Neither does initial vr, vl, occur in Lat., e.g. laqueus (noose), cf. Goth. vruggō (sling), *vriggan (wring, wind); lacer (torn),

§ 78. cf. ράκος (rag), Aiol. βράκος, i.e. Γράκος, Sk. √ντας κ, i.e. ττακ (tear); radix (root), cf. ρίζα, Lesb. βρίσδα, i.e. Γρίζα, *Fριδ-ya, Goth. vaúrts (root), O.H.G. wurza, wurzala, f.f. of root therefore=vrad, etc.

Bef. f, s has disappeared in fallere (deceive) bes. $\sigma \phi \acute{a}\lambda \lambda \epsilon \iota \nu$, fungus (id.) bes. $\sigma \phi \acute{o}\gamma \gamma o s$, funda (sling) bes. $\sigma \phi \epsilon \iota \nu \delta \acute{o}\nu \eta$, fides (lyre) bes. $\sigma \phi \acute{\iota} \delta \eta$; on the conjectured loss of s bef. p, ν . Corss. Krit. B. 457.

More singular, on the other hand, are cases like teg-o (cover) for *steg-o, cf. i-steg-a for *in-steg-a (cover), Gk. στέγ-ω, $\sigma \tau \acute{e} \gamma - \eta$, bes. $\tau \acute{e} \gamma - \eta$, Lith. stógas (roof), in Germ. likewise the s is lost, cf. deck-en, dach; tundo (thump), \sqrt{tud} , bes. Goth. stauta, √stut, but Sk. √tud; taurus (bull), ταῦρος, O. Bulg. turu, but Goth. stiur, Sk. sthura-s; cau-ere (beware) bes. Goth. us-skav-yan (be wakeful), origl. √skav, etc.; bes. freq. initial st, sc. Whilst, inversely, of sc only the s remains in sirpeus (rush—), sirpea, sirpiculus, -la, (junket), sirpare (bind), bes. scirpus (withe), scirpeus, scirpea, etc., cf. O.H.G. scilaf, sciluf, N.H.G. schilf, and perh. in some others (Corss. Krit. B. 31 sqq.). Also in $l\bar{a}$ -tum for *t $l\bar{a}$ tum, cf. \sqrt{tol} (tollo), init. t is lost. p bef. l has clearly been lost in lien (milt) bes. Sk. plihán-, plihán, σ πλήν; perh. in lanx, lanc-is (dish), bes. πλάξ, πλακ-ός (flat-, plate), O.H.G. flah; whether lae-tus (glad) is for *plai-to-s, and belongs to Sk. \sqrt{pri} (love, cheer), lau in lau-ere, lauare (wash), stands for *plav, and here a causative fmn. of \sqrt{plu} is seen, may seem doubtful (lau belongs prob. to same root as luo, and not to root plu). Upon loss of c bef. l, which is not yet beyond doubt in my opinion, cf. Corss. Krit. B. p. 2 sqq., Krit. N. p. 35 sqq. On the whole there is still considerable doubt and uncertainty in this branch, because we are confined to a few examples.

It is well known that it was not till historic times that men simplified gn into n, as e.g. in $n\bar{o}$ -sco, $n\bar{o}$ -tus, $n\bar{o}$ -men, fr. older $gn\bar{o}$ -sco, cf. co- $gn\bar{o}$ -sco, $gn\bar{o}$ -tus, $gn\bar{o}$ -men, cf. co- $gn\bar{o}$ -men; narrare fr. earlier $gn\bar{a}$ -rigare, from same $gn\bar{a}$ -rus, where the initial conson. is fully preserved, fr. same root as $gn\bar{o}$ -sco, origh. $gn\bar{a}$ fr. gan (nosse: cf. $\gamma \iota$ - $\gamma \nu \dot{\omega}$ - $\sigma \kappa \omega$, Sk. $\acute{g}n\bar{a}$, Germ. kan and $kn\bar{a}$, etc.):

 $n\bar{a}$ -tus for earlier $gn\bar{a}$ -tus, preserved in co- $gn\bar{a}$ -tus, \sqrt{gna} fr. gan § 78. (gignere), cf. gen-us. The same sound-law, by which an initial gutt. + n becomes n, occurs also in Eng.: the old initials gn, kn, are still noticeably written in Eng. of this day, in words like gnat, gnaw, knowledge, etc., but g, k, are no longer heard. Cf. loss of gutt. bef. nasals medially (§ 77, 1, a).

Similarly at a later period of the lang. st was lost before l (Corss. Krit. B. 461, cf. 149) in st. stleiti-, sleiti-, leiti-, liti- (lis, suit), bes. which we place O.H.G. strīt, N.H.G. streit (in st-terminations, it is true, this does not occur in Lat. words), in Inserr. slis is seen, stl thus becomes l through sl: stlātu-s, lātu-s (broad), which is derived from origl. √star (ster-no, strā-tus, στορ-έννυμ, etc.)—thus the origl. word means "spread"; stlocu-s, locu-s (place), which we refer to Sk. √sthal, further fmn. of stha, origl. √sta (stand), and others whose derivation is not quite clear.

As $su\bar{a}uis$ for *suaduis (§ 77, 1, a), so uiginti for *duiginti, cf. duo, Sk. dva; the dropping away of the d occurs nevertheless in Gk. too ($\epsilon lkoo \iota$), in Kelt. (Erse fiche, fichet, i.e. uiginti), in Aryan (Sk. $vi \zeta dti$, Zend $vi \zeta aiti$), and thus dates from the earliest times. If *duiginti had stood its ground to a later time, *biginti would have arisen, as bis fr. *duis, bellum fr. duellum, bonus fr. duonus (duonoro; Epit. Scip. Barb. f.): here through mutual influence b has arisen, as an assimiln. of d and v, since d became assimilated to v as regards quality (labial quality), and v became like d as regards quantity, i.e. became a momentary sonant conson.

Bef. y, d is lost in *Iouis*, etc., for *Dyouis, cf. Old Lat. Dioue (Ioui), and Osk. Diuver (Momms. Unterital. Diall. p. 255), Sk. $dy\bar{a}u$ -s (heaven), Gk. $Ze\dot{v}_S = *\delta yev$ -s, etc., \sqrt{dyu} (=div, shine). The same loss is seen in *Iuno* for *Diou-no, fmd. fr. same root (Corss. Krit. N. p. 142).

Even the favourite initial sound qu appears simplified to u in uermis (cf. Germ. wurm) for *quermis, f.f. karmi-s, Sk. krmi-s, Lith. kirm-elé (worm; but cf. G. Curt. Gr. Et.² p. 485 sqq.);

§ 79. Final.

The Lat. lang., as we have it, generally permits only single consonn. at the end of a word, but also groups of two and even three consonn., viz. nasal or liq.+mutes; mutes, r, l, m, n+s; s+t, e.g. ferunt, hunc, uolt, fert; scrobs, ars for *art-s, and so in similar cases (but uir for *uirs, quatuor for *quatuors, fr. *uiro-s, quatuor-es), fers (fr. feris), puls for *pult-s (but uis for *uil-s, f.f. varsi, "thou wilt," sal for *sal-s, s lost), hiem(p)s, ferens for *ferent-s, and so in such cases (but nouos, nouas, for *nouons, *nouans); the combinations rs, ls, ns, were therefore tolerated in these cases where they stand for rts, lts, nts, i.e. when s alone =ss; est; nasal or liq.+mute+s, e.g. hiemps, urbs, arx, i.e. arc-s, falx, i.e. *falcs; indeed our present final consonn., for by far the greatest part, did not become final until vowels had evaporated, and were not compressed until vowels had been lost. Yet in no case was a doubled conson. tolerated, in fine, e.g. os, fel, not *oss, *fell, cf. oss-is, fell-is; moreover, the combination of two mom. consonn. was not admissible, e.g. lac for *lact, cf. lact-is, and rd, cor for *cord, cf. cord-is; where these combinations should have been final, the latter conson. was discarded.

It was not until Lat. became a fixed written language in classical times that the terms. assumed a more definite existence. The earlier national archaic lang. shows in spelling a great indifference towards final consons. In fact, the consonantal terms. s, m, t, important as they are for word-forms., were sometimes expressed in writing, sometimes omitted, which

we find to be the case in Umbr. also. This fact proves that in § 79. earlier times (and later also in the unformed branch of the Roman) the final consonn. were heard with difficulty, perh. as in many Romance langg. (e.g. d in Span., t, nt, ctc., in Fr.). The correct lang. here introduced a fixed rule, after the pattern of the Gk.; the conson. was now either always written (the rule), or regularly discarded (the exception). A few exx. of the unsettled treatment of the term. have remained in spelling even as late as the classical period.

We will treat separately of the final consonants, originer, m, t, since they are most important for grammar.

s is omitted in writing in the oldest inserr. in cases like Tetio, Furio, n. sg. for Tetio-s, Furio-s; Corneli, Clodi, etc., for Cornelis, Clodis = Cornelios, Clodios (Ritschl, Progr. of 12 March, 1861). Yet in the earliest lang, the loss of final s is mainly confined to n. sg. It is well known that even at a later time the poets were wont to neglect final s bef. initial consonn., and that the weak pronunciation of final s is otherwise attested. The written lang, in most cases decided in favour of the retention of the s. Nevertheless the wavering betw. retention and loss of final s in 2 p. sg. med. is obvious, e.g. amabaris, amabare; further in magi-s and mage, poti-s, pote, where, at the same time i was dulled to e.

The loss of s was regularly allowed, e.g. in n. pl. masc. of ost., which in the older lang. still shows the s here and there, e.g. heis, magistreis, etc., bes. hei, magistrei; a later fm., as hi, magistri, was the one afterwards exclusively fixed upon; the same process takes place in gen. sg. fem. of a-stems, e.g. suaes, dimidiaes, later ae only is found, etc.

Through evaporation of the vowel of the last syll. s after r is lost, as in *puer*, uir, quatuor, acer (with auxil. vowel bef. r), for *pueros, *uiros, *quatuores (cf. $\tau \acute{e}\sigma \sigma a \rho e s$), acris; more rarely this occurs after l, uigil for uigilis, *uigils.

m, only faintly audible in fine, is likewise often unexpressed in earlier monuments of the lang., e.g. oino, uiro, duonoro (Erit.

§ 79. Scip.), bes. pocolom, sacrom, etc. In popular diall. this faint pronunciation of final s remains, as later insert. prove; the written lang., however, firmly maintained the letter in spelling. One effect of the weak pronunciation of final m must here be noticed, viz. that in verse it was not considered a conson. bef. vowels.

Also final n seems to have become only faintly heard, cf. alioqui bes. alioquin and the like (cf. however, Corss. Krit. B. 272).

Origl. final t had in earlier Lat. a weak sound, like a scarcely audible d; accordingly it is freq. omitted in writing, e.g. patre (Epit. Scip. Barb.) bes. Gnaiuod, etc. In classical Lat. d for origl. t was sometimes retained in writing, thus e.g. in ntr. pronl. decl. e.g. quo-d=origl. ka-t, id=origl. i-t, etc. (the spelling in t is rarer in these cases), sometimes completely discarded, as in abl. sg., where d=origl. t has been retained in archaic Lat. only, but was not written in class. Lat., e.g. $equ\bar{o}-d$, $equ\bar{o}$ =origl. $akv\bar{a}-t$, Sk. $acv\bar{a}-t$; in termn. -to of imper. t has likewise been lost, e.g. origl. $as-t\bar{a}t$, Osk. $es-t\bar{u}d$, Lat. esto fr. $*es-t\bar{o}d$. Final t in Lat. is not origl., but has become final after vowelloss, and thus remains in class. Lat., whilst archaic Lat. does not show this t, e.g. $\bar{t}t$, f.f. *ei-ti, origl. ai-ti; uehit(i), uehunt(i), *uehonti, origl. vaghati, vaghanti, etc., but archaically dede=dedet, dedit, and even indeed dedro=dedront, dederunt.

Thus nt also in earlier times and colloquial lang. was barely audible in pronunciation; wherein lies the cause of the double fms. of the later fixed spelling of 3 p. pl. pf., as fecerunt (with entire termn. retained) and fecere (with lost nt and weakened vowel).

The clipping of final consonn. was even more prevalent in Umbr. than in Old Lat.; whilst the Osk. does not show this phenomenon, since there was a generally-received Samnite orthography before the time from which our earliest inserr. date, and the popular variations in pronunciation were no longer followed in spelling.

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